Location: Alpharetta, GA, 30022

Posted: January 17, 2024

Contact Info:

lawrencebroomfieldjr@gmail.com

Top of Form

Your Email: cs@advanceqt.com change email

Subject: Response to your resume Senior IOS Developer

Message

Job Description (optional)

Bottom of Form

Resume:

Lawrence Broomfield

(Senior iOS Developer)

Email: lawrencebroomfieldjr@gmail.com Phone: (706) 395-4868

Professional Summary

As a seasoned iOS Mobile App Developer with nearly 11 years of hands-on experience, I have a proven track record of successfully launching innovative features and products within the iOS app landscape. Additionally, I bring over 2 years of IT support expertise dedicated to facilitating mobile app development.

My skill set spans Swift and SwiftUI coding using the Xcode IDE, encompassing the entire software development lifecycle, from meticulous requirements-gathering to design, development, rigorous testing, debugging, and ongoing maintenance. I boast extensive proficiency in Swift and Objective-C, leveraging Xcode and diverse iOS versions, debugging tools, memory management, and robust multi-threading techniques.

My expertise extends to native iOS development, inclusive of app deployment strategies to the App Store. I possess adeptness in architecting projects employing MVC, MVVM, VIPER, KVO, KVC, Singleton, Delegate, Observer/ Notification, Adapter, Factory and Facade frameworks, utilizing both Storyboards, XIB, and programmatic approaches to craft seamless user interfaces.

Strong background in parsing JSON and XML web service responses, utilizing 1st party and 3rd party frameworks such as CocoaPods, AFNetworking, RESTKit, Alamofire, Codable, and JSON serialization.

Furthermore, my experience includes hands-on work with AVFoundation, Core Bluetooth framework for device connectivity, and Location Management utilizing Core Location, Google Maps, and Map Kit—customizing annotations and markers for enhanced functionality. I'm adept at optimizing user experience by leveraging GCD and NSOperations for efficient multithreading, while also excelling in

consuming RESTful web services and parsing service responses via JSON decoder protocol.

In essence, I bring a wealth of expertise in iOS app development, from technical intricacies to seamless user experiences, aimed at delivering exceptional, high-quality mobile applications."

Technical Skills

Languages: Swiftm SwiftUI, Objective-C, JavaScript.

Databases: Keychain.

Frameworks: UIKit, MapKit, CoreLocation, AVFoundation, AVKit, Core Data, AlamoFire, AFNetworking, SnapKit, Firebase, Firebase Analytics.

Tools: Charles Proxy, Postman, OpenGL, JIRA, Confluence, Valgrind, Carthage.

Testing: XCUITest, XCTest, TDD, BDD, Quick, Nimble.

IDEs: Xcode, VSCode, Visual Studios, Eclipse, NetBeans.

Versioning Control: GIT, Github, Gitlab, SourceTree, Github Desktop, Terminal.

Architecture: MVC, MVVM, VIPER.

Libraries: SwiftyJSON, OAuth.

Design Patterns: Singleton, Façade, Factory, Adapter, Delegation, Notification, KVO, KVC.

UI/UX: Storyboards, XIBs, IB, Programmatic, SwiftUI.

Data Persistency: NSUserDefaults, CoreData, SQLite, Keychain, FileManager.

Development Methodologies: Scrum, Agile, Storyboards.

Memory Management: RESTful.

Professional Experience

Senior iOS Developer December 2021 – Present

E-Trade Financial Corporation (A subsidiary of Morgan Stanley), Alpharetta, GA

App: Power E*TRADE-Advanced Trading

https://apps.apple.com/us/app/power-e-trade-advanced-trading/id1111881020

Description: The app enables seamless trading across diverse financial instruments and provides user-friendly tools like real-time options analysis, synchronized notetaking, direct deposits, and customizable scans. Transitioning to SwiftUI initially presented challenges, necessitating a redesign of common views and workarounds due to SwiftUI's limitations compared to UIKit. Despite this, overcoming these hurdles laid a strong foundation that streamlined subsequent feature development using SwiftUI.

Project Summary: Collaborated within a 15-member team, operating within a structured framework of 2-week sprints, involving meticulous sprint planning,

refinement, and grooming sessions. Upon meeting Acceptance Criteria, code submissions underwent rigorous review before merging into the designated branch and allocation for QA testing. Additionally, a crucial aspect of my role encompassed actively seeking and implementing enhancements to elevate the overall codebase.

•Directed a diverse team of 15 members to enhance trading experiences in options, stocks, futures, and ETFs.

•Utilized Swift, Cocoa Touch frameworks (UIKit, Foundation), SwiftUI, and Combine to build user-friendly interfaces and functionalities.

•Implemented MVVM architecture and diverse design patterns (delegation, protocols, Adapter, notifications, and Facade) for robust, scalable app structures.

•Introduced real-time options trading via the Trade Tape feature and integrated dynamic market analysis with live streaming data through Lightstreamer subscriptions.

•Integrated the check deposit feature using MiSnap/MiTek SDK and SwiftUI/Combine, elevating user interaction.

•Employed async/ await for backend interactions and functional programming concepts (Map, Filter, CompactMap) for efficient, modular code.

•Contributed to a SwiftUI library for commonly used UI components and ensured seamless adaptation across languages through localization.

•Expanded Positions for synchronized notetaking across platforms, utilizing Restful API calls and Codable encryption.

•Managed the transition from RxSwift to Combine for optimized functionality and error handling.

•Efficiently tackling JIRA tickets from both ongoing releases and the backlog.

•Improved user experience by implementing features like Pull-to-Refresh, integrated Firebase Analytics, Crashlytics, and Remote Config for analytics and crash reporting.

•Employed Localytics for user interaction monitoring and implemented dynamic updates for in-app banners.

•Addressed memory leaks, enhanced crash-free rates, and improved overall app performance by bug fixing and stability enhancements.

•Oversaw the app release process, including branch management, QA build provisioning, and App Store uploads, while following Agile Scrum methodologies for iterative development.

Senior iOS Mobile App Developer December 2020 – November 2021

HEB Grocery Company, Santa Monica, CA

App: https://www.heb.com/static-page/mobile

The project was focused on adding features for suggesting shopping articles and creating tutorials for new version. This included UI, Shopping patterns, translations to Spanish. I was on a team of 3-4 working in an Agile environment.

•With the H-E-B Mobile App, you can save, simplify and organize your grocery trip with time-saving features. It allows you to manage Digital Coupons or see what products are available at your H-E-B, where they are in the store or find the nearest H-E-B that carries it.

•Worked on the new look for this app with icons across the bottom of the app you can quickly navigate between sections you use most.

•Application was migrated to Swift based on a previous version written in Objective-C.

•Recipe finder in the recipe section that allows you to add ingredients to your shopping list.

•API integration implementing Alamofire and SwiftyJSON.

•Implementation of Dispatch Queues to perform tasks asynchronously and concurrently.

•Implemented Authentication process along with “Remember me” option and Touch ID.

•User Interface: XIBs, Storyboards, Constraints, Auto layout.

•Core Location to get the list of stores nearby.

•Worked on the weekly ad feature and bug fixes from previous versions.

•Added Push Notifications to receive weekly ads information.

•Worked in a Scrum environment with UI Designers, QA, Backend and PO. Applied pair programming.

•Guided a small team of 4 developers using paired programming, having daily SCRUM meetings, and reporting back to the project managers.

Sr. iOS Developer March 2020 – November 2020

Speedway LLC, Dallas, TX

App: https://apps.apple.com/ca/app/speedway-fuel-speedy-rewards/id568047979

The Gas Price/Store Locator gives you a hand in finding the closest convenient Speedway with up-to-date gas prices. Speedy Rewards members can also keep track of points, view club statuses to know when your next free item is coming your way, and keep up on the latest bonus point offers, redemption items, and sweepstakes prizes.

•Developed in an Agile environment, serving as Scrum Master and facilitating sprint planning, retrospective, backlog, review, and daily scrums.

•Led working groups to develop migration strategies and prepare standard operating procedures.

•Coordinated with QA testers for end-to-end unit testing.

•Used CocoaPods to load all third-party frameworks and manage dependencies

•AutoLayout for universal constraints with NSLayoutConstraints and Anchors.

•Size Classes for varying UI implementation across iPhone and iPad devices to vary for Regular and Compact sizes

•Revamped iOS widgets to new and updated iOS 14 Widgets

•Application is with MVVM-C architecture for best separation of concerns

•Worked with various design patterns such as Factory, Façade, Adapter, Delegations, Notifications, and KVO

•Wrote Unit and UI tests with XCTest and XCUITest respectively to give optimal code coverage with a TDD approach.

•Utilized URLSession to fetch RESTful API calls and decode data via the Codable protocols

•Used Charles and Postman to debug network calls

•Closely worked with all sides of the development process including QA, UI/UX team, Product, and AN/Backend Teams.

•Used GCD for multithreading and dispatch groups for fetching segments of data.

•Implemented best practices for getting information such as lay loading, pagination, and caching data

•Assisted with usage of Flutter for implementing some of the game sections

•Revamped a large amount of the code base to include Accessibility implementation to adhere to ADA Compliance guidelines as well as improve UI testing.

•Accessibility Inspector for debugging accessibility compliance.

•Jenkins for CI/CD pipeline and deployment to TestFlight for application deployment.

•Instruments for testing app performance and memory management.

Senior iOS Engineer

PNC Bank, Pittsburgh, PA April 2018 – March 2020

App: https://apps.apple.com/us/app/pnc-mobile-banking/id303113127

The PNC Mobile app allows account holders to access account information, check transactions, and pay bills from the mobile app.

•Worked on B2C facing application, focusing on PassKit and Apple Pay, UI development, as well as consumption of multiple webservices using mobile APIs.

•Used SnapKit to build and maintain all programmatic constraints.

•Used MVC and MVVM architectures.

•Applied Delegation, Builder, and Singleton design patterns.

•Performed technical work in alignment with an Agile/Scrum methodology with 2-week sprints and daily scrums.

•Programmed in Swift and Xcode,

•Worked with webservice calls using Alamofire, JSON responses parsed using SwiftyJSON

•Decoupled entire project by creating different modules using private CocoaPods

•Worked with front-end UI/UX designers, back-end teams and business teams to ensure an app that worked seamlessly meeting all requirements.

•Used JIRA to help groom user stories for future sprints, broke stories into tasks and participating in Spring planning meetings, working with Product Manager to prioritize tasks.

•Used Bitbucket with Git for source control and code review using pull requests

•Worked with QA testing team, writing Unit tests using XCTest, and managed scenario/functional testing.

•Used Jenkins with Git for continuous integration.

•Fixed memory issues by using Instruments, most notably using the Allocations and Time Profiler tools.

•Integrated Touch ID capabilities, using Local Authentication

•Created test cases to streamline and optimize code with OCUnit

•Utilized GCD/NSOperation multithreading techniques for better performance.

iOS Developer January 2017 - April 2018

AT&T Services, Inc., Dallas, TX

App:https://play.google.com/store/apps/details?id=com.mapfactor.navigator HYPERLINK "https://play.google.com/store/apps/details?id=com.mapfactor.navigator&hl=en_CA&gl=US"& HYPERLINK "https://play.google.com/store/apps/details?id=com.mapfactor.navigator&hl=en_CA&gl=US"hl=en_CA HYPERLINK "https://play.google.com/store/apps/details?id=com.mapfactor.navigator&hl=en_CA&gl=US"& HYPERLINK "https://play.google.com/store/apps/details?id=com.mapfactor.navigator&hl=en_CA&gl=US"gl=US

MapFactor Navigator is a free GPS navigation app with free offline maps from OpenStreetMaps (incl. free monthly maps update). Navigate without an internet

connection in more than 200 countries. Intuitive voice turn-by-turn navigation in different languages, speed limits, camera warnings and many other useful features.

•Implemented the application features screen with an attractive and custom UI, featuring images and text in a scrolling view.

•Implemented the gas prices information section with custom UITableViewCells and nib files.

•Implemented the gas station details section, along with interactive buttons such as the sharing, feedback and calling, features.

•In charge of storing persistent information on the device with Core Data.

•Refactored, commented some sections of the code that required improvements and developed Unit Tests using XCTest to ensure their proper behavior.

•Embedded a UITableView on a UIViewController, alongside swipe gestures detection for a custom implementation of a side menu.

•Stored information on the device by the means of Core Data for the user favorite POI section.

•Made use of NSCache to save map information and reduce the networking footprint on user's side.

•Worked on an Agile environment, having 2-week sprints and daily stand ups.

•Used SVN for version control.

•Consumed API endpoints with NSURLConnection and parsed information with NSJSONSerialization.

iOS Mobile Developer September 2015 - January 2017

Duolingo, Pittsburgh, PA

App: https://apps.apple.com/us/app/duolingo-language-lessons/id570060128

With the Duolingo app, users learn a new language with the world's most-downloaded education app. Duolingo is the fun, free app for learning 35+ languages through quick, bite-sized lessons. Practice speaking, reading, listening, and writing to build your vocabulary and grammar skills.

•Worked with Objective-C and Swift with Xcode

•Migrated Objective-C code to Swift 2 and later to Swift 3

•Application architecture with MVVM pattern

•Utilized different design patterns code design patterns to optimize performance such as delegation, notifications, and singletons.

•Worked in an Agile Team with 5 iOS developers alongside 5 AN developers.

•Debugged and fixed bugs with break points, print statements, and Instruments

•Worked Closely with QA for a better workflow.

•Implemented AVFoundation for voice over to speak the language phrases back to the user.

•Created animations with UIView animate functionality to draw different scenes

•Developed navigation between views was mixture of using UINavigationController, UIGestureRecognizer, and UIPopoverController.

iOS Developer February 2013 - September 2015

Etsy, Brooklyn, AL

App: https://apps.apple.com/us/app/etsy-custom-creative-goods/id477128284

The Etsy app lets you shop millions of one-of-a-kind items straight from your iPhone and iPad. Whether it's for moments big or small we have it all: handmade goods, vintage goods, creative goods, custom goods—there's something for everyone. With the Etsy app you can purchase the perfect gift for friends, family, and co-workers, or even get a little something for yourself.

•Developed the iOS mobile app using Objective-C and XCode.

•Worked with UIKit Framework for development and maintenance.

•Used Storyboards and AutoLayout constraints to create universal layout designs.

•Utilized XIBs and IBDesignables for UI/UX created interfaces.

•Implemented UITableViews and UICollectionViews to have and efficient user experience integrated into the Products and Product Detail Pages

•Worked with MVC architecture and eventually started work in cascading the application towards MVVM architecture.

•Utilized Github and SourceTree for source control.

•Regularly consumed RESTful API services with SwiftyJSON to have real time data from the backend.

•Carthage for dependency management utilizing various frameworks such as SwiftyJSON and AFNetworking.

Other Professional IT Work

IT Support Specialist June 2012 – February 2013

Department of Public Health

Provided IT admin support for over 350 employees. Created accounts and provided access to Outlook 365 and Windows OS. Monitored network status for outages.

IT Consultant January 2012 – June 2012

Atos-Syntel

Served a consulting function to ensure distributed Agile/Scrum IT development team members aligned with the end-goal objective for a web services development

project with disparate technologies/methodologies, including Core Java, JDBC, web services and Rest APIs, Spring – MVC, AOP, annotations, dependency injection. Asynchronous programming (involving queues), Junit, Git, and Maven.

IT Quality (QA) Analyst January 2011 – December 2011

Mercedes-Benz

Supported an iOS mobile app development team from a quality analysis/testing perspective on a mobile automotive app development project.

Education

Bachelor's in Computer Science

Albany State University

Sr. Big Data and Cloud Engineer

Location:

Issaquah, WA, 98027

Posted:

August 04, 2023

Contact Info:

markmejia992@gmail.com / (203) 683-0270

Mark Mejia

Senior Big Data and Cloud Engineer

Phone: (203) 683-0270; Email: markmejia992@gmail.com

Summary

•A result-oriented Professional with 10 years of experience in Big Data development, data analytics, data processing, and database technologies

•Proven expertise with the Hadoop ecosystem and Big Data tools, frameworks, and major vendor distributions such as Cloudera and Hortonworks

•Architected and optimized AWS Redshift data warehouse, improving query performance by 50% and reducing overall data storage costs by 30%.

•Performed end- to-end Architecture & implementation assessment of various AWS services like Amazon EMR, Redshift, S3, lambda, cloud watch, SQS etc.

•Skilled in optimizing data processing and query performance by tuning Azure SQL Database and Azure Synapse Analytics, utilizing techniques such as indexing, partitioning, and query optimization.

•Proficient in leveraging a wide range of Azure data services, including Azure Data Factory, Azure Databricks, Azure SQL Database, Azure Synapse Analytics, Azure Cosmos DB, and Azure Data Lake Storage, to architect scalable and efficient data solutions.

•Skilled in troubleshooting and optimizing programming languages including SQL, Java, Python, Scala, Hive, RDDs, Data Frames, and MapReduce

•Strong ability to design elegant solutions for complex problems using problem statement analysis.

•Implemented data governance and security measures on Azure, resulting in compliance with industry

regulations and achieving a 99% reduction in data security incidents.

•Proficient in working with large and complex data sets, real-time/near real-time analytics, and distributed big data platforms.

•Deep knowledge in incremental imports, partitioning, and bucketing concepts in Hive and Spark SQL for data optimization

•Skilled in deploying and managing large multiple nodes of Hadoop and Spark clusters.

•Developed custom large-scale enterprise applications using Spark for data processing and Oozie workflows for ETL scheduling and orchestration.

•Strong understanding of Hadoop architecture and ecosystems, including HDFS, YARN, MapReduce, Spark, Falcon, HBase, Hive, Pig, Ranger, Hive, Sqoop, YARN, etc.

•Expertise in scripting and automating end-to-end data management and synchronization between clusters.

•Hands-on experience with Hadoop frameworks and ecosystem components such as Hive, Pig, Sqoop, HBase, MongoDB, Cassandra, Oozie, Spark RDDs, Spark Data Frames, Spark Datasets, Spark Streaming (PySpark), etc.

•Involved in building multi-tenant clusters and implementing disaster management for Hadoop clusters.

•Experience in mainframe data migration to Hadoop and batch processing

•Proficient in installing and configuring Cloudera's (Cloudera Manager) and Hortonworks distributions (Ambari)

•Extensive experience in extending Hive and PySpark core functionality by writing custom UDFs.

•Improved development efficiency by implementing Docker-based development environments, reducing setup time by 50% and enabling seamless collaboration among developers.

•Used Apache Flume extensively for collecting logs and error messages across the cluster.

•Compiling the data, including internal and external data sources, leveraging new data collection processes such as geo-location information

•Communicator with the ability to perform at a high level, meet deadlines, and adaptable to ever-changing priorities.

Technical Skills

•Programming Language & IDEs

•Unix shell scripting, Object-oriented programming, Functional programming, SQL, Java, Hive QL, MapReduce, Python, Scala, Ajax, REST API, Spark API

•Jupyter Notebooks, Eclipse, IntelliJ, PyCharm

•Databases & NOSQL

•Apache Cassandra, Apache HBase, MongoDB,

•Oracle, SQL Server, DB2, Sybase, RDBMS, PostgreSQL, MySQL

•Parquet, Avro, JSON, Snappy, Gzip,

•Methodologies

•Agile, Kanban, Scrum, DevOps, Continuous Integration, Test-Driven Development,

•Cloud (Data Engineer services)

•AWS, Azure, Snowflake, Google Cloud Platform

•Big Data Platforms, Software, & Tools

•Apache Flume, Apache Hadoop, Apache Hadoop YARN, Apache H Catalog, Apache Hive, Apache Kafka, Apache Oozie, Apache Pig, Apache Spark, Spark Streaming, PySpark, SciPy, Pandas, Mesos, Apache Tez, Apache Zoo Keeper, Apache MAVEN, SBT, Cloudera Impala, HDFS, Hortonworks, MapReduce, Apache Airflow, Elasticsearch, Elastic Cloud, Kibana, Apache Drill, Presto, Apache Hue, Sqoop, Kibana, Tableau, AWS, Cloud Foundry, Pentaho, Kettle

•CICD

•GitHub, Bit Bucket, Jenkins, Docker

Professional Experience

Sr. Big Data Engineer

Costco Wholesale, Issaquah, WA - Aug’21 to Present

Built one platform for data engineers, digital solution developers, and a growing number of data consumers.

•Utilize AWS Lambda functions for event-driven processing using the AWS boto3 module in Python

•Execute Hadoop/Spark jobs on AWS EMR using data stored in S3 Buckets for large-scale data processing

•Configure access for inbound and outbound traffic for RDS DB services, DynamoDB tables, and EBS volumes, and set up alarms for notifications or automated actions on AWS

•Work with AWS Kinesis for processing large volumes of real-time data for real-time data processing

•Develop scripts for collecting high-frequency log data from various sources and integrating it into AWS using Kinesis, staging data in the Data Lake for further analysis

•Use Terraform to provision and configure the necessary AWS resources, such as EC2 instances, VPC, subnets, security groups, and IAM roles.

•Set up an Amazon S3 bucket for data storage and create appropriate permissions and access controls.

•Leverage AWS Glue and custom ETL processes to extract data from other sources like databases, S3, or data lakes.

•Design logical and physical data models for various data sources on AWS Redshift to optimize data storage and retrieval

•Develop Spark applications in Scala, Python, or Java to perform data transformations, cleansing, and aggregation.

•Integrate Spark with AWS services like Amazon S3 for data input/output and leverage Spark's DataFrame or Dataset APIs for efficient data manipulation.

•Set up a Snowflake instance for scalable, cloud-based data warehousing.

•Design and implement a data model within Snowflake to support efficient storage and retrieval of structured and semi-structured data.

•Establish connections between Spark and Snowflake to load processed data into Snowflake tables using Snowflake's connectors or drivers.

•Create Apache Airflow DAGs using Python for orchestrating and scheduling data workflows

•Implemented advanced procedures like text analytics and processing using in memory computing capability methods via Apache Spark in Scala

•Implement AWS IAM user roles and policies to authenticate and control access to AWS resources

•Specify nodes and perform data analysis queries on Amazon Redshift clusters on AWS for extracting insights from data

•Define Spark/Python (PySpark) ETL framework and best practices for development to ensure efficient data processing

•Develop Spark programs using PySpark for data processing and analysis

•Create User Defined Functions (UDFs) using Python in Spark for custom data transformations

•Develop processes to update the Redshift data with the latest changes from Salesforce.

•Develop, design, and test Spark SQL jobs with Scala and Python Spark consumers for data analysis and processing

•Implement Continuous Integration and Continuous Deployment (CI/CD) practices using tools like AWS Code Pipeline or Jenkins to automate the deployment of Spark applications and infrastructure changes.

•Version control the codebase and apply DevOps best practices to ensure smooth development, testing, and deployment processes.

•Create and maintain ETL pipelines in AWS using Glue, Lambda, and EMR, Snowflake for seamless data processing and transformation

Sr. Cloud Engineer

Intel Corporation, Santa Clara, CA - Feb’20 to Jul’21

•Implemented data ingestion using Apache Kafka and AWS Kinesis to stream data from various sources into AWS S3, ensuring efficient and reliable data transfer

•Develop AWS Lambda functions to transform and process the ingested data.

•Utilize Python or other supported languages to write custom code for data transformations, data cleansing, aggregation, or enrichment.

•Leverage DynamoDB, a NoSQL database service, for temporary storage or caching during data processing stages.

•Utilized AWS Glue for data transformation and ETL processes, including data cleansing, enrichment, and aggregation, to prepare data for analysis and visualization

•Implemented AWS Fully Managed Kafka streaming to send data streams from the REST API to Spark cluster in AWS Glue, enabling real-time data processing and analysis

•Consumed data from Kafka topics using Spark Streaming, processed and transformed the data to meet business requirements

•Utilized AWS Glue to automate data processing and migration from on-premises systems to the cloud, ensuring smooth and efficient data integration

•Proposed a serverless architecture to process data in AWS on an event-based architecture, reducing operational overhead and improving scalability and cost-effectiveness

•Set up AWS RDS (Relational Database Service) as the source database for data ingestion.

•Configure AWS CloudWatch to monitor RDS database metrics, such as CPU utilization, storage capacity, and query performance.

•Implement AWS Lambda functions to extract data from RDS using SQL queries or by subscribing to database events.

•Trigger Lambda functions periodically or based on specific database events using AWS CloudWatch Events.

•Involved in the complete Big Data flow of the application, including data ingestion, data processing, and data warehousing, ensuring end-to-end data pipeline efficiency and performance

•Used Spark where possible to achieve faster results and optimize data processing and analysis tasks

•Architected and implemented Data Engineering solutions for AWS cloud services, including AWS Cloud services planning, designing, and DevOps support like IAM user, group, roles & policy management, ensuring proper access controls and security measures

•Created modules for MWAA to call different services in the cloud, including EMR, S3, Athena, Crawlers, Lambda functions, and Glue jobs, ensuring smooth and automated data processing workflows

Sr. Data Engineer

New York Life Insurance Company, New York, NY Sep’18 to Jan’20

Ingested and moved the most crucial data from any application, database, data lake to unlock the value of centralized data. Services: Data Connectors, ETL, Data Integrations, Data Pipeline, Data Analytics, ELT.

Worked as part of the Big Data Engineering/Data Science team to design and develop data pipelines in an Azure environment using ADL Gen2, Blob Storage, ADF, Azure Databricks, Azure SQL, Azure Synapse for analytics and MS Power BI for reporting.

•Worked with Azure and was involved in ETL, Data Integration, and Migration, ensuring smooth and efficient data processing in the cloud environment

•Configured, deployed, and automated instances on Azure environments, and Data Centers. Maintained different models using Docker, MLFlow, and Kubernetes.

•Used Azure Data Factory to create data pipelines that move data from different sources and transform it into the desired format

•Used Azure Logic Apps or Azure Functions to automate your workflows and trigger events based on certain

conditions

•Use Terraform to provision and configure the necessary Azure resources, such as Azure VMs, Azure Storage Accounts, Virtual Networks, and Azure Databricks workspace.

•Set up an Azure Storage Account or Azure Data Lake Storage Gen2 for data storage and create appropriate permissions and access controls.

•Implemented Spark using Scala and utilized Data Frames and Spark SQL API for faster processing of data, optimizing data processing performance

•Wrote producer/consumer scripts in Python to process JSON response, enabling data processing and analysis tasks

•Execute long running jobs for preprocess products and ware houses data in Snowflake to cleanse and prepare the data before consuming in staging area with Snowpipes.

•Utilize Apache Kafka for distributed data streaming, enabling high-throughput and real-time data ingestion and processing.

•Set up an Apache Kafka cluster on Azure using services like Azure Event Hubs or Azure HDInsight Kafka.

•Develop Kafka producers and consumers in Python using Kafka-Python or Confluent Python libraries to stream data from various sources.

•Utilize PySpark or Azure Data Factory data flows for data profiling, data quality assessment, and anomaly detection.

•Use tools like Jenkins, GitLab CI/CD, or Azure DevOps to set up CI/CD pipelines.

•Used Spark engine, and Spark SQL for data analysis, and provided data to data scientists for further analysis, supporting data-driven decision making

•Set up a Snowflake instance on Azure for scalable, cloud-based data warehousing.

•Design and implement a data model within Snowflake to support efficient storage and retrieval of structured and semi-structured data.

•Establish connections between PySpark and Snowflake to load processed data into Snowflake tables using Snowflake connectors or drivers.

Data Engineer

Merck & Co., Inc., Rahway, NJ - Oct’16 to Aug’18

Developed end 2 end pipeline to turn hundreds of millions of customer interactions into actionable insights that optimize campaigns and improve marketing efficiency solution using Google Cloud Platform (GCP), Apache Kafka, Python, Apache Spark, Snowflake, and Terraform for efficient data processing, streaming, storage, and deployment.

•Use Terraform to provision and configure GCP resources, including Compute Engine instances, VPC, subnets, firewall rules, and IAM roles.

•Set up necessary GCP services, such as Google Cloud Storage (GCS) for data storage and Cloud Pub/Sub for messaging and event streaming.

•Utilize Apache Kafka as a distributed event streaming platform for real-time data ingestion and processing.

•Set up Kafka brokers, topics, and partitions on GCP or using managed services like Google Cloud Pub/Sub or Confluent Cloud.

•Develop Kafka producers and consumers in Python for streaming data ingestion and processing.

•Utilize Apache Spark on GCP for scalable and distributed data processing.

•Develop Spark applications in Python to perform data transformations, aggregations, and analytics.

•Set up a Snowflake instance on GCP for scalable and cloud-based data warehousing.

•Design and implement a data model within Snowflake to support efficient storage and retrieval of structured and semi-structured data.

•Establish connections between Spark and Snowflake to load processed data into Snowflake tables using Snowflake's connectors or drivers.

•Build an end-to-end data pipeline using GCP services like Google Cloud Dataflow, Apache Airflow, or custom workflow orchestration using Python.

•Implement Continuous Integration and Continuous Deployment (CI/CD) practices using tools like Google Cloud Build or Jenkins to automate the deployment of Spark applications and infrastructure changes.

•Implemented machine learning algorithms utilizing TensorFlow, Scala, Spark, MLLib, R, and other tools and languages needed

•Developed and maintained data models using NoSQL databases, ensuring proper data organization and structure for efficient data processing and analysis

•Constructed and customized integration systems using technologies such as Saas, API, and web services, enabling seamless data integration between different systems and applications

•Implemented DevOps practices such as continuous integration and delivery using Git, Jenkins, and Terraform, ensuring efficient and automated software development processes and timely delivery of software features

Hadoop Developer,

Texas Electricity Ratings, Houston, TX - Jan’13 to Sep’16

•Configured, installed, and managed Hortonworks (HDP) Distributions, ensuring smooth operation and performance of Hadoop clusters

•Enabled security to the cluster using Kerberos and integrated clusters with LDAP at the enterprise level, ensuring data security and access control

•Worked on tickets related to various Hadoop/Big data services, including HDFS, Yarn, Hive, Oozie and Kafka, resolving issues and ensuring the smooth functioning of the services.

•Optimized MapReduce code to improve performance by 25% and reduce processing time for data-intensive tasks.

•Worked on Hortonworks Hadoop distributions (HDP 2.5), leveraging expertise in HDP for efficient data processing and analysis

•Performed cluster tuning and ensured high availability, optimizing cluster performance and ensuring minimal downtime

•Established cluster coordination services through Zookeeper and Kafka, enabling efficient coordination among distributed components in the Hadoop cluster

•Monitored multiple Hadoop clusters environments using Ambari, proactively identifying and resolving performance and operational issues

•Worked with team members to troubleshoot and resolve issues related to MapReduce jobs, ensuring smooth execution and reliable results.

•Worked with cluster users to ensure efficient resource usage in the cluster and alleviate multi-tenancy concerns, optimizing resource allocation and utilization

•Managed and scheduled batch jobs on a Hadoop Cluster using Oozie, ensuring timely execution of data processing workflows

•Performed cluster and system performance tuning, optimizing the performance of Hadoop clusters for efficient data processing and analysis

•Used Spark SQL and UDFs to perform transformations and actions on data residing in Hive.

Education

•Computer Systems Engineering from Instituto Tecnológico y de Estudios Superiores de Monterrey (ITESM)

Course

•Robotics Course from Shibaura Institute of Technology