

Mohit Paudyal

6018190596 • Austin, TX • mohit.paudyal@gmail.com • US Citizen • Secret Clearance

SKILLS

Object Oriented Programming Language: Go Programming Language, Java, Python

Data Science: Matplotlib, Panda, Statistics

Web Application Development: Apache Kafka, RabbitMQ, AWS Cloud, JavaScript, React, Vue JS, Redux, HTML, CSS, SASS, Servlets, JSP, Spring Web MVC, Spring Boot, Spring Cloud, Spring Security, Apache Tomcat, Micro-services, Angular, Eureka, Restful APIs, Webservices, GraphQL, JSON, Ajax, Node, Express, Muiv4, Muiv5, Rtk Query, Tan-stack Query, Bootstrap.

Database Programming: JDBC, JPA Repository (Spring Boot), Table Design and CRUD Operations, SQL Queries and DML, UML Diagrams, DB2, JPA Repositories, Stored Procedures, No SQL Queries (Mongo DB, Cassandra), PostgreSQL, E/R Diagram.

Development Tools and Techniques: Agile, Waterfall, Unit Testing (JUnit, Karma, Jasmine, Sinon), Jules, Dark Canary, Jira, Confluence, Integration Testing, Symphony, Slack, Test Driven Development (TDD), UNIX Commands, Git, Eclipse, IntelliJ IDEA, Selenium, Cucumber, WebStorm, Visual Studio Code, Sublime, RegEx, and Notepad++.

EXPERIENCE

Software Engineer Associate Manager

2021- present

National Security Portfolio, AFS | Austin, TX

Actively engineering and maintaining application for the Department of Defense for Joint Staff Medical Situational Report where we build a centralized platform to view, edit and manipulate medical situational data. In addition, we integrate with other applications in the government cloud. Built on AWS platform for the US Department of Defense with Docker containers.

Key Accomplishments:

- Engineered, built and maintained Restful APIs to transition business logic into meaningful solutions, enhancing data management and API functionality.
- Engineered and built new search capabilities within the application with PostgreSQL and gist trigram index to speed queries significantly for performance.
- Utilize timescale db and its associated extensions to create data chunks to load data into time series charts for the application.
- Facilitated and encouraged discussions for UX for frontend components providing clients with functional design.

- Engineered and built front end components with storybook for agile development on frontend system.
- Engineered and facilitated migration within the React ecosystem to support better state management and cache management including redis and node package libraries like redux and saga.
- Engineered the ability to feature-flag a service to keep up with the clients needs to view multiple platforms in the dashboard and to allow audience members to turn off the flag if deemed not necessary within the application.
- Utilized the micro service architecture pattern to communicate with various other DOD data sources to present the application as a single source of truth for medical and logistical traffic data.
- Utilized PostgreSQL capabilities such as indexes and stored procedures to display data as efficiently as possible.
- Utilized Syncthing as a continuous file synchronization procedure to ensure our multiple servers are in sync with the main server in real time, with safety and security in mind.
- Built and maintained the ability to view patients during flight via Map Services such as Geo Server and Geo Layers.
- Built and maintained the ability to view and track vessel movements in near real time using Map Services and websocket connections.
- Utilized the Circle CI pipeline for CI/CD and the Cloud One Infrastructure for deployment across multiple platforms.
- Created and maintained component libraries for the platform using React library and other tools necessary for the application.
- Responsible for managing builds over multiple environments and remotely assisting deployment processes for the application during deployments.
- Followed Test Driven Design Patterns (TDD) to ensure at least 80% coverage for the backend framework language of choice.

Associate Software Engineer

2019 - 2021

JP Morgan Chase Co | Columbus, OH

Engineered, developed, and maintained services for the Retirement Experience and Hub for a seamless experience for client within JP Morgan to roll over their 401k application towards Chase. Engineered the retirement money movement flow for easy check deposits for retirement. Built and maintained encrypted messages with Apache Kafka for Client Notification, Advisor Central dashboard, and Alerting. Furthermore, integrated with external dependency service – IHS MARKIT for trade and investments. In addition, also built and maintained the Digital Presentation Service Layer for Investments. Used business requirements and guidelines to facilitate both – development and client experience.

Key Accomplishments:

- Engineered, built, and maintained all Retirement Rollover Experience API and Retirement Hub API.
- Built and maintained client notification through email with Kafka Messaging Service to alert clients who enroll in the 401k rollover program.
- Built and maintained advisor central dashboard with Kafka Messaging Service to alert advisors whose client enrolled or need help in enrolling in the 401k rollover program.
- Utilized the New Banking Architecture for high performance data pipelines, streaming, analytics, data integration and support mission – critical applications.
- Built and maintained the cloud deployment pipeline strategy (Gaia Cloud) for the retirement experience.
- Hands on experience with Photon Architecture and no SQL Query Languages such as Cassandra, GraphQL, and MongoDB including mainframe query language (DB2).
- Created and maintained component libraries within the Retirement Experience with Java and Spring Boot in the Digital Layer of the Retirement Experience.
- Responsible for release management, consisting of managing builds over multiple environments and remotely assisting deployment processes.
- Followed Test Driven Design Patterns (TDD) to ensure 100% coverage using Mockito, Junit, Karma, Jasmine and Sinon with a focus on Test Driven Development.
- Ensure proper development of features with detailed testing of features including ADA and Automated Testing.
- Ensure proper UDF code coverage by writing fully functional automated test scripts that run at regular intervals.
- Ensure proper service integration with JMeter and Blaze meter test suites for user load test for each service.

Software Engineer

Nov. 2015 - Mar. 2019

US MILITARY | Schofield Barracks, HI

Over four years of experience in computer engineering, threat mitigation, software development and interface design within the setting of the US Department of the Defense. Coordinated cross platform development including cloud services and maintain and monitor open-source applications within the firm itself. Result oriented and used business guidelines to cater to the client and customer needs.

Key Accomplishments:

- Developed and maintained integral parts of the large- scale global combat management system (GCSS) using Java, Java Messaging Services, Java Database Connectivity (JDBC), Java Architecture for XML, Junit, Hibernate, Spring Framework and Simple Object Access Protocol (SOAP).
- Lead project and a team of four people to track and maintain all external dependencies of the application and implemented new software development practices including continuous integration, development, and deployment of an application.
- Analyzed System down times, user interfaces and conducted performance testing to ensure feasibility of all the API to accommodate the client's needs.

- Conducted end to end analysis, testing and completed the data migration within the firm itself.

TECHNICAL EXPERIENCE

Mashed – Asset Tracking and Alerting System

- Dockerized full stack mobile friendly application with React and Go programming language.
- Ability to track assets, assign locations and update assets based on various categories.
- Ability to create composite assets and assign assets to create a complete object of client needs.
- Ability to create maintenance plans and receive alerts for due out items.
- Ability to create and update notes, bookmark favorites and add collaborators to the selected asset.

Extrach.com – Trading Resource and Resource

- Full Stack Mobile Friendly with React and Java Spring Boot Application.
- User based authentication and roles including secure messaging between clients.
- Ability to add stocks in watch list, view stocks and its values in real time.
- Ability to read news and market history according to the stock ticker.
- Ability to send personalized email messages about the tickers in the client's watch list.

Insulin Tracker

- Full Stack Mobile Friendly and Dynamic Web Application using Java spring boot and JavaScript for the front end.
- Ability to provide the clients with the ability to register, record and display their daily blood values.
- Ability to send secure email messaging to the prescribed doctor and maintain the conversation thread.
- Ability to see the daily, weekly, and monthly blood sugar chart and set those values in their profile.
- Store confidential PII information of the client in SQL Database in a masked 256-bit encryption.
- User based authentication for Administrative and User Roles.
- Fully functioning blog with ability to create, retrieve, update, and delete blogs seamlessly.

InSlick – Seamless Contact Service

- Microservices Architecture using Spring Boot, API Management with hibernate.
- React Native based project structure with Redux as the state management tool.
- Ability to create contacts based on preference and integrate each other as "add a friend" functionality.
- Ability to discretely remove unwanted contacts across the whole community.

National Park Reservation

- Command line application utilizing Spring JDBC and SQL queries to connect to the PostgreSQL Database.
- Ability to allow the user to navigate by selecting from a menu of choices that run select SQL queries to retrieve the data back to the client.
- Validate user input and submit new reservations.
- Full stack dynamic application in Java MVC and Spring Framework.

EDUCATION

Park University | Bachelor of Science in Computer Science
GPA: 3.9/4.0

Tech Elevator | Coding Academy
Enterprise Java Development

IBM Python Level 2 Certification
Python Integrated Development

Data Science Foundation Level 2 Certification
Data Science Foundation Level 2 certification