

SUMMARY

Software Developer with 2+ years of experience in full-stack development, specializing in designing scalable microservices and automating workflows with the OpenAI API. Proficient in building testable, high-performance solutions. I committed to creating AI-driven, user-friendly applications that solve complex business and data problems.

WORK EXPERIENCE

Lifetime Omics, USA | Software Developer

Aug 2024 - Present

- Constructed an automated precheck system in **Node.js** for research data validation and analysis, integrating MongoDB to boost **data integrity by 40%** and cut the **validation time by 60%**.
- Formulated and refined automated quality control workflows using OpenAI and data dictionary management, **reducing manual intervention by 80%** while delivering reliable, scalable outcomes across datasets.
- Implemented containerization workflows with Docker by developing and debugging Dockerfiles to support deployments across Mac, Linux, and Windows environments.
- Developed a backend solution in MongoDB to automatically analyze datasets, detect inconsistencies, and assign quality control (QC) scores, boosting **system efficiency by 25%** and minimizing manual errors.
- Launched a React-based UI with MUI components that leveraged WebSocket and REST API communication secured via OAuth 2.0, leading to a 30% surge in user engagement and a 25% decline in interface issues.
- Refactored existing codebases into a modular architecture, facilitating rapid integration of new features and increasing code maintainability by 35%.

Accenture, Bangalore, India | Application Development Associate

Dec 2020 – Aug 2022

- Designed and developed **RESTful microservices using Java, Spring Boot, and Hibernate**, improving scalability and maintainability of the Cloud Asset Management (CAM) portal.
- Engineered **end-to-end backend workflows** leveraging Spring Data JPA and Hibernate ORM for efficient database interactions, reducing query latency and improving data consistency.
- Integrated **Grafana, Kibana, and performance metrics** into the portal for robust monitoring, logging, and proactive performance optimization.
- Collaborated with a **7-member agile team** to build and maintain the CAM portal using Java, Spring Boot, Hibernate, Python, Docker, and serverless frameworks, while ensuring **seamless CI/CD pipelines with Jenkins**.
- Increased **unit and integration test coverage from 50% to 80%** across multiple Spring Boot microservices using JUnit and Mockito, strengthening reliability and reducing regression risks.
- Optimized cloud infrastructure by developing **AWS Lambda functions in Python** to detect and remove stray EC2 instances, leading to a **20% cost reduction**.
- Scaled microservices efficiently by deploying **Spring Boot services** on AWS (Lambda, S3, SQS, ECS), achieving a **40% throughput improvement** and enabling higher volumes of concurrent traffic.

PROJECTS

Decentralized Document Verification System

- Developed a decentralized web app using IPFS and Ethereum that enables users to upload, share, and verify documents, ensuring integrity through content-based hashing and on-chain storage of file fingerprints.

Employee Turnover Data Mining

- Performed OLAP-based multidimensional analysis on Employee Turnover data. Used ETL for data cleansing, applied WEKA for clustering and classification, and visualized insights with Tableau.

TECHNICAL SKILLS

Programming Languages: Java, Spring Boot, Hibernate, Spring Data JPA, Python, Node.js, JavaScript, TypeScript

Backend & API Development: WebSockets, RESTful APIs, Express.js, OpenAI API, OAuth 2.0

Database Management: MongoDB, DynamoDB, Oracle MySQL, SQL Server, Hibernate ORM

Cloud Technologies: AWS, EC2, S3, IAM, Lambda, EventBridge, SQS, ECS, CloudWatch

DevOps & Tools: Git, Docker, Jenkins, Terraform, Jira, Kanban, Kibana, Grafana

EDUCATION

Master's in Computer and Information Sciences

Florida International University, Miami, FL | GPA 3.8/4.0

Aug 2022-Apr 2024

Master of Computer Applications

School of Computer Science and IT, DAVV, Indore, India | GPA 7.8/10.0

July 2017-Jun 2020