MANOHAR VALLABI

SF Bay Area | Linkedin| vallabi58@gmail.com | GitHub |Portfolio| +1 (501) 288-9315

SUMMARY

Backend Software Engineer with 5 years of experience evolving from modernizing legacy enterprise systems to building secure, high-performance microservices which can handle 10k concurrent users. Strong foundation in Java, Spring Boot, and relational databases, expanded into cloud-native development with AWS, Kafka, and CI/CD with proven results in scaling, optimizing, and securing applications across finance and retail.

SKILLS:

Core Skills

- **Languages & Core Tech**: Java (Java 8+), Spring Boot, Spring Security, ReactJS, Apache Kafka, SQL
- **Cloud & DevOps**: AWS (EC2, S3, Lambda), Docker, Kubernetes, Terraform, Jenkins, Git/GitHub
- **Databases**: PostgreSQL, MySQL, MongoDB

Additional Expertise

- **Web Services & APIs**: REST, SOAP, Microservices Architecture, API Design (REST, GraphQL)
- **Frontend**: JavaScript (ES6+), TypeScript, Angular, HTML5, CSS3
- **Certifications**: AWS Certified Solutions Architect – Associate, Oracle Certified Java Programmer
- **Other** : OAuth2, JWT Authentication, SSL/TLS, HIPAA Compliance, Prometheus, Grafana

EXPERIENCE:

Software Development Engineer – Mindtree, California **Oct 2023 - Current**

- Designed and developed **cloud-native microservices** using **Java, Spring Boot, and Spring Security(Oauth2/JWT)** for retail and logistics clients, enabling real-time dynamic pricing models and inventory updates streamlining business processes, resulting in a **15%** improvement in sales efficiency and a **10%** reduction in operational costs.
- Developed interactive frontend dashboards using **React.js** and **Redux**, integrating real-time portfolio and transaction data via **GraphQL APIs**.
- Led the integration of enterprise applications within retail and logistics platform, automating workflows across **CRM** and **ERP** systems using **RESTful APIs**, reducing manual operations by **12%**.
- **Optimized** JVM with Garbage Collection tuning and thread-pool management, improving API latency by **35%** under peak load, and **reduced AWS costs** by right-sizing EC2 and tuning RDS without performance loss.
- Executed **CI/CD pipelines** using **Jenkins** and **Docker**, and engineered real-time data pipelines with **Apache Kafka** and **Hadoop**, enabling enhanced data analytics and decision-making for global retail clients, improving inventory forecasting accuracy by **17%**.

Java Developer – Accenture, India **Oct 2021 - Nov 2022**

- Developed and deployed workflow automation systems using **Java, Spring Boot** and **Hibernate** automating document processing and customer onboarding for financial institutions, reducing process time by **22%**.
- Integrated **AI-based optical character recognition** (OCR) with NewgenONE's platform to automate document processing for government clients, improving the accuracy of data extraction by **20%**.
- Developed **microservices**-based application to support omnichannel customer engagement for public service agencies, improving citizen service delivery by **15%**.
- Optimized complex **SQL queries** to enhance database performance for financial and government clients, reducing query execution times by **15%** and improving the efficiency of data retrieval in large-scale automation systems.

Java Developer – Cognizant Technology Solutions, India **Dec 2019 - Oct 2021**

- Migrated legacy systems to a **modern microservices architecture**, improving scalability and performance for enterprise-level clients in the finance and utilities sectors.
- Developed **Java-based backend systems** using **Spring MVC** and **JSP**, improving fiscal subsidy processing efficiency for over **100** major clients, including **CIPLA** and other multinational corporations.
- Collaborated with cross-functional teams to design document management solutions for fiscal subsidy applications using **AWS S3** for secure storage, enhancing accessibility and security for financial data across multiple industry sectors.

EDUCATION:

California State University, Long Beach, CA **Dec 2024**
Master of Science in Software Engineering GPA - 3.80

KL University, India **2020**
Bachelor of Technology in Computer Science GPA - 3.6

RESEARCH PROJECT:

- Conducted research on **Network Intrusion Detection Systems (NIDS)** using advanced machine learning algorithms (**XGBoost, ANN, GANs**) to enhance 5G network security and infrastructure reliability, achieving **98%** accuracy with an **ANN model** trained on the **5G-NIDD** dataset.
- Applied **adversarial training techniques** to improve defenses against sophisticated cyber threats, contributing to real-time, scalable security solutions for 5G networks.

Chat with PDF AI | GitHub | Live Link

- Built a Python-based AI chat application integrating **LangChain** and **OpenAI APIs** to enable interactive querying of PDF documents, supporting natural language understanding and context-based answers and deployed with Streamlit frontend and vector database integration for scalable, real-time responses.