MANOHAR VALLABI

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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**

- Built distributed, event-driven microservices with **Java, Spring Boot** to process real-time multi region pricing and **2M+** inventory events using **asynchronous pipelines** and caching strategies, **improving sales efficiency by 15%**.
- Replaced batch jobs with Kafka-based event pipelines and redis caching for low latency reads, improving demand forecasting accuracy by 17%, enabling sub-second processing.
- Lowered **infrastructure costs 10%** by eliminating over-provisioning, tuning **JVM** performance and applying autoscaling policies in AWS.
- Developed interactive front-end dashboards using **React.js** and **Redux**, integrating real-time portfolio and transaction data via **GraphQL APIs,** improving real-time visibility of analytics thereby increasing user engagement.
- Implemented centralized **log management via ELK Stack (Elasticsearch, Logstash, Kibana)** to improve issue detection and troubleshooting efficiency.
- Added **distributed tracing** with **OpenTelemetry** and **Prometheus** metrics, improving fault isolation and reducing mean time to recovery by 25%.
- Implemented **caching invalidation** and **API rate-limiting** strategies to maintain stability under 10k+ concurrent requests.

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 **Jan 2023 - Dec 2024**

Master of Science in Software Engineering GPA - 3.80

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.