Manohar Vallabi

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SUMMARY

Software Engineer with a Master's degree in Computer Science and over 4 years of experience in designing and developing scalable, reliable, and fault-tolerant distributed systems using Java, Spring Boot, React.js. Expertise in system design, AWS cloud solutions, and full-stack development, with a strong focus on building highly available and efficient applications.

TECHNICAL SKILLS

Skills: Java, Python, JavaScript, SQL, Spring Boot, Spring Security, React.js, AngularJS, TypeScript
Databases: PostgreSQL, MySQL, Oracle, MongoDB, Redis, DynamoDB
Cloud: AWS (EC2, S3, RDS, Lambda)
Others: Jenkins, GitLab CI/CD, Docker, Kubernetes, Terraform, Git, Jira, Maven, Splunk, New Relic, ElasticSearch, Swagger, JUnit, Jest, Mockito, Kafka, ActiveMQ, JMS, Data Structures, Algorithms, System Design

EXPERIENCE

Software Associate — California State University, Long Beach — Feb 2025 – Present

- Build and maintain full-stack web applications using **Spring Boot** and **React.js**, streamlining data retrieval from **AWS** S3 and SQL databases to enhance accessibility and user experience.
- Led the enhancements of an internal **SSO**-based authentication system, enabling secure access to critical modules and streamlining user management across services, significantly improving system security and operational efficiency.
- Optimized SQL queries across multiple Java-based modules, achieving a 35% reduction in load times for large datasets using **PostgreSQL**, and ensured cross-browser compatibility through thorough testing and debugging.

Research Associate — California State University, Long Beach — Mar 2024 – Dec 2024

- Enhanced an existing event scheduling system using **Spring Boot**, integrating RESTful APIs to improve data flow and usability for over 500 staff and coordinators, resulting in a 25% increase in operational efficiency.
- Upgraded the staff scheduling platform using Spring Boot, **React.js** and **Hibernate** by building a smart shift swap feature and revamping the UI, cutting scheduling conflicts by 30%.
- Refined application responsiveness by troubleshooting and resolving issues related to event overlaps and streamlining SQL Server database queries for event tracking, cutting response times by 15% during peak periods.

Application Development Analyst — Accenture, Hyderabad, India — Oct 2021 – Nov 2022

- Developed and maintained robust services using **Spring Boot**, **React.js** and **PostgreSQL** for Telstra's customer-facing web applications, supporting **5M+** user base across Australia and international markets.
- Secured access to over **2 million user records** across multi-tenant environments by implementing **Spring Security**, **JWT authentication**, and role-based access control, significantly reducing unauthorized access incidents.
- Developed and optimized 20+ RESTful APIs and **GraphQL** services, reducing payloads and improving data delivery to user interface by 30%, collaborating with UX designers and Product Managers.
- Built automated CI/CD pipelines with Jenkins, **Docker**, and **Kubernetes** on AWS infrastructure managed via Terraform, reducing release cycles.
- Designed big data solutions using Apache **Spark**, Hadoop, and **Kafka** for batch processing, real-time data ingestion, and event-driven streaming between distributed systems.

Programmer Analyst — Cognizant Technology Solutions, Hyderabad, India — Dec 2019 – Oct 2021

- Spearheaded the migration of **METLIFE**'s web services from Struts to Spring Boot microservices for 18+ modules, ensuring seamless smooth transition through comprehensive end-to-end testing, maintaining system integrity and performance.
- Integrated **Apache Kafka** to support an event-driven architecture, enabling communication between microservices and improving real-time data processing and implemented advanced search capabilities with Elasticsearch
- Deployed applications to **PCF** with Bitbucket-based CI/CD, implemented CloudWatch monitoring, and built **AWS Lambda** workflows that reduced system failures by 30% and improved operational efficiency.
- Implemented automated testing with **JUnit** and Mockito, achieving 99.9% uptime and reducing manual regression effort by 50%.

EDUCATION

Master's in Computer Science, California State University, Long Beach — Dec 2024