

# MOHAN BALAJI

1706 SE Moberly Manor Drive APT #25, Bentonville, AR 72712 | [mohanbalaji4work@gmail.com](mailto:mohanbalaji4work@gmail.com) | (510) 901-9641

[linkedin.com/in/mohan-balaji-1702](https://www.linkedin.com/in/mohan-balaji-1702) | [github.com/mohanbalaji95](https://github.com/mohanbalaji95)

An enthusiastic self-learner actively building scalable and efficient applications.

## EDUCATION

California State University - East Bay, Hayward, CA  
Master of Science in Computer Science

APR 2017 - DEC 2018

## WORK EXPERIENCE

J.B.Hunt | Java, Quarkus, Kubernetes

FEB 2022 – PRESENT

- Developed and deployed **RESTful APIs** with **Quarkus** and **Spring Boot**, streamlining module communication and reducing downtime by 30%.
- Managed **Kubernetes** clusters for containerized applications, ensuring **scalability**, **availability**, and optimal resource allocation with **HPA** and **Ingress**. Monitored performance using **Prometheus** and **Grafana**.
- Built and optimized **Docker images** for microservices, containerizing legacy systems and automating workflows via **CI/CD pipelines** in **Jenkins/GitLab**.
- Secured **Kubernetes environments** with **RBAC**, network policies, and secret management, while managing custom images via a private **Docker Registry**.
- Collaborated with leads to create **POCs**, enhancing scalability and earning approval for production deployment.
- Optimized **SQL queries** and integrated **Redis caching**, improving query performance by 40% and boosting app responsiveness.
- Implemented **Apache Kafka** for reliable event-driven communication, retiring **IBM MQ** for better scalability and efficiency.
- Conducted **performance profiling** with **VisualVM** and **load testing**, identifying bottlenecks and optimizing **RESTful API** and listener throughput.
- Led **code reviews**, advocated for **best practices** in **Java** and microservices, and hosted technical sessions on **Spring**, **Quarkus**, **Redis**, and **Apache Kafka**.
- Automated **build**, **test**, and **deployment** processes with **Azure CI/CD** and **GCP**, cutting deployment times by 50% while maintaining high code quality.
- Configured **Spring Security** and **OAuth 2.0** for secure, role-based access control across **Spring** and **Quarkus** applications.

J.B.Hunt | Miracle Software Systems | Java, Spring Boot, Kubernetes

NOV 2019 – FEB 2022

- Designed **REST APIs** for customer-facing applications, achieving 99.9% uptime during peak usage.
- Migrated legacy deployment methods to containerized solutions using **Docker**, reducing manual intervention and deployment errors.
- **Optimized Java** code by reducing object creation overhead and reworking **multithreading logic**, which resulted in a 20% improvement in response times.
- Collaborated with the DBA team to design efficient schemas for **SQL server**, ensuring optimal data structure and performance to support new features.
- Used **Postman** and **JUnit** to test functionality, debug issues, and ensure services adhered to API contracts.
- Worked closely with front-end developers to ensure seamless integration of user interfaces with backend services.
- Integrated monitoring tools like **Prometheus** and **Grafana** to track key application metrics and reduce the average time to resolve incidents.

## SKILLS

### Programming & Frameworks

Proficient in **Java** (8, 11, 17), with expertise in multithreading, functional programming, **Quarkus**, **Spring Boot**, **Hibernate/JPA** for ORM, and **JDBI** for streamlined efficient database interaction using **JDBC**.

### Architecture & Design

Designed scalable **microservices** architectures for high-volume transactions, applying **design patterns** (Factory, Singleton, Builder, Observer) for modularity, and building **RESTful APIs** adhering to **OpenAPI/Swagger** standards.

### Cloud & DevOps

Proficient in deploying applications using **Azure** for **CI/CD** automation and **GCP** for deployments, while leveraging **Docker** for containerization and **Kubernetes** for orchestration.

### Messaging & Event Handling

Developed **event-driven systems** using **Apache Kafka** and managed **IBM MQ** for inter-application messaging.

### Testing & Performance Optimization

Skilled in **JUnit 5**, **Mockito**, and **JMeter** for testing and **VisualVM profiling** to optimize backend performance by 25%.

### Agile & Team Leadership

Experienced in **Agile** methodologies, **Scrum** ceremonies, and mentoring junior developers through **code reviews**.