

## **BHARATH RAVULA**

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### **Professional Summary:**

- Results-driven Java Full Stack Developer with 8+ years of hands-on experience architecting, developing, and deploying enterprise-grade applications across automotive, healthcare, supply chain, and financial domains.
- Extensive expertise in building modern, responsive web applications using React.js with Redux (Toolkit, Thunk, Saga) and Angular (NgRx), following component-based and reactive design principles.
- Strong background in designing scalable backend systems using Java (8/11/17), Spring Boot, and Spring Cloud, implementing microservices architectures with service discovery, centralized configuration, and API gateways.
- Proven experience developing RESTful and GraphQL APIs, implementing secure authentication and authorization using JWT, OAuth2, and Spring Security, with comprehensive API documentation via Swagger/OpenAPI.
- Hands-on experience designing event-driven and asynchronous systems using Apache Kafka, RabbitMQ, and ActiveMQ, enabling high-throughput messaging and loosely coupled microservices.
- Demonstrated ability in managing polyglot persistence, working with relational databases (MySQL, PostgreSQL, Oracle) and NoSQL databases (MongoDB, Cassandra, Couchbase), along with caching strategies for performance optimization.
- Strong exposure to cloud-native application development and deployments across AWS, Azure, and GCP, supporting scalable, highly available, and resilient systems.
- Well-versed in DevOps and CI/CD practices, building automated pipelines using Jenkins and GitLab CI/CD, with Docker containerization and Kubernetes orchestration.
- Quality-focused developer practicing Test-Driven Development (TDD), implementing unit and integration tests using JUnit, Mockito, TestContainers, and ensuring robust logging and error handling.
- Effective team contributor with solid experience in Agile/Scrum environments, collaborating closely with cross-functional teams to deliver high-quality solutions on time while continuously improving system performance and reliability.

### **Professional Skills:**

<b>Programming Languages</b>	Java (8/11/17), JavaScript, TypeScript, Python, SQL, PL/SQL
<b>Frontend</b>	React.js, Angular, Redux (Thunk, Saga, Toolkit), Apollo Client, NgRx, HTML5, CSS3, Tailwind CSS, Material-UI, PrimeNG, Bootstrap, Jest
<b>Backend</b>	Spring Boot, Spring Cloud (Eureka, Feign, Config Server), Spring Security, Spring MVC, Spring Data JPA, Spring AOP, Hibernate, Node.js, Express.js, GraphQL (Netflix DGS), WebSocket
<b>Databases</b>	MySQL, PostgreSQL, MongoDB, Couchbase, Oracle, Redis, Apache Cassandra, Azure Cosmos DB
<b>Messaging &amp; Streaming</b>	Apache Kafka, Kafka Streams, RabbitMQ, Azure Service Bus.
<b>Monitoring &amp; Logging</b>	ELK Stack, Prometheus, Grafana, Fluentd, Log4J, CloudWatch.
<b>CI/CD &amp; DevOps</b>	Jenkins, GitLab CI/CD, Azure DevOps, Docker, Kubernetes, TestContainers
<b>Cloud Platforms</b>	AWS (EC2, S3, Lambda, API Gateway, RDS, EKS, CloudWatch), Azure (App Services, AKS, Cosmos DB), GCP
<b>Testing &amp; Automation</b>	JUnit, Mockito, TestContainers, Spock, Selenium, Postman, RestAssured
<b>Version Control</b>	Git, GitHub, GitLab, Bitbucket

### **Professional Experience:**

**Java Full Stack Developer | Honda Motor Company | Los Angeles, CA**

**October 2023 – Present**

#### **Project:**

Developed a comprehensive Dealer Management System to streamline vehicle inventory management, customer relationship tracking, service scheduling, and sales analytics, enabling real-time inventory synchronization across dealership locations and actionable insights through reporting dashboards.

#### **Responsibilities:**

- Architected and developed dynamic, component-based user interfaces using React.js functional components, React Hooks, Redux Toolkit, React Router, and lazy loading for optimized frontend performance.
- Built and maintained reusable UI component libraries using Material-UI and custom styled components, ensuring consistent design standards across applications.
- Integrated frontend applications with backend services using Axios, implementing interceptor-based authentication, centralized error handling, and request/response transformation mechanisms.
- Designed and implemented a Spring Boot microservices architecture using Spring Cloud components (Eureka, Feign, Config Server) for service discovery, inter-service communication, and centralized configuration.
- Developed and maintained RESTful APIs adhering to OpenAPI/Swagger specifications, implementing API versioning, pagination, and HATEOAS principles.
- Implemented security controls using Spring Security, including JWT-based authentication, OAuth2 authorization, and role-based access control for multiple user roles.
- Designed and implemented Redis-based caching strategies for frequently accessed inventory and customer data to improve application responsiveness.
- Architected event-driven communication workflows using Apache Kafka to support real-time inventory updates, notifications, and inter-service messaging.
- Configured Kafka producer and consumer settings, including consumer groups, offset management, and idempotent message processing for reliable event handling.
- Designed and optimized MySQL relational database schemas, implementing indexing, partitioning for historical data, and query tuning.
- Utilized MongoDB for flexible document storage of customer interactions and service history, leveraging aggregation pipelines for analytics use cases.
- Deployed containerized microservices on AWS EKS, integrating load balancing, auto-scaling, and managed database services through AWS RDS.
- Built and maintained CI/CD pipelines using Jenkins, enabling automated builds, testing, Docker image creation, and Kubernetes deployments.
- Practiced Test-Driven Development (TDD) using JUnit 5, Mockito, and TestContainers to ensure high code quality and reliability.
- Implemented application monitoring and logging using CloudWatch, Prometheus, and Grafana to support proactive production support and troubleshooting.

**Environment:** Java 17, Spring Boot 3.x, Spring Cloud (Eureka, Feign, Config Server), Microservices Architecture, React.js 18, Redux Toolkit, Material-UI, Axios, Apache Kafka, MySQL 8.0, MongoDB 6.0, Redis, AWS (EC2, EKS, RDS, S3, CloudWatch), Jenkins, Docker, Kubernetes, Helm, Terraform, Prometheus, Grafana, JUnit 5, Mockito, TestContainers, GitLab, JIRA

## **Java Full Stack Developer | Prime Healthcare | Ontario, CA**

**August 2021 – September 2023**

### **Project:**

Built an integrated Electronic Health Records (EHR) platform enabling healthcare providers to manage patient data, appointments, insurance claims, and HIPAA-compliant workflows while supporting seamless communication across clinical and administrative teams.

### **Responsibilities:**

- Developed responsive and accessible Angular 14 applications using TypeScript, implementing lazy-loaded modules and OnPush change detection for optimized rendering of patient record interfaces.
- Built modular and reusable Angular components using reactive forms, custom validators, and template-driven interactions, ensuring WCAG 2.1 AA accessibility compliance.
- Managed complex application state using NgRx Store and Effects, implementing selectors and memoization techniques for efficient state derivation.
- Integrated backend services using Angular HttpClient and RxJS, implementing reactive data streams, retry logic, exponential backoff, and centralized error handling.
- Designed and implemented Spring Boot microservices using Spring Cloud (Eureka, Ribbon, Feign, Gateway) with resilience patterns via Resilience4j.
- Developed GraphQL APIs using Spring GraphQL to efficiently resolve nested healthcare data while minimizing over-fetching and network payloads.
- Implemented Spring Security with multi-factor authentication (MFA), integrating LDAP for enterprise authentication and JWT for stateless session management.
- Applied Spring AOP for cross-cutting concerns including audit logging, performance monitoring, and declarative transaction management.
- Engineered asynchronous messaging workflows using RabbitMQ with topic exchanges for appointment notifications, claims processing, and inter-department communication.

- Configured ActiveMQ for reliable message delivery in critical healthcare workflows, implementing persistence, acknowledgments, and dead-letter queues.
- Designed a hybrid data persistence strategy using PostgreSQL for structured, ACID-compliant patient data and Apache Cassandra for high-velocity time-series data.
- Implemented Couchbase for distributed caching and session management to support low-latency access to frequently used patient data.
- Orchestrated Azure-based deployments using AKS, Azure Service Bus, and Azure Cosmos DB to support containerized workloads and globally distributed data access.

**Environment:** Java 11, Spring Boot 2.7, Spring Cloud (Eureka, Ribbon, Feign, Gateway), Spring Security, Spring AOP, Angular 14, TypeScript, NgRx, RxJS, Bootstrap, GraphQL, RabbitMQ, ActiveMQ, PostgreSQL, Apache Cassandra, Couchbase, Azure (AKS, Service Bus, Cosmos DB), GitLab CI/CD, Docker, Kubernetes, ELK Stack, JUnit, Mockito, TestContainers, RestAssured, JIRA

## **Java Full Stack Developer | Casey's General Store, Ankeny, IA**

**August 2021 – September 2023**

### **Project:**

Developed an internal Store Operations and Inventory Replenishment platform for Casey's General Store to provide near real-time visibility into inventory and sales. The system automated replenishment and exception handling using event-driven microservices, enabling proactive stock management across retail and foodservice locations.

### **Responsibilities:**

- Developed a responsive operations dashboard using React with reusable components for inventory visibility, replenishment status, and exception alerts.
- Built Spring Boot microservices for inventory tracking, replenishment recommendation, store rules management, and notification workflows.
- Implemented Kafka-based event streaming for ingesting sales and stock updates and publishing replenishment events across services.
- Designed workflow-based messaging using RabbitMQ for replenishment approvals, notifications, and asynchronous task execution.
- Built REST APIs with Swagger/OpenAPI, implementing pagination, validation, and standardized error handling for UI consumption.
- Implemented role-based access using Spring Security + JWT, controlling permissions for store staff, managers, and operations users.
- Designed transactional persistence using PostgreSQL (reorder requests, approvals, store rules) and semi-structured storage using MongoDB (audit trails, exception logs).
- Containerized services using Docker and deployed on AWS (EKS/EC2 + RDS) with environment-based configuration.
- Automated build/test/deploy pipelines using Jenkins + GitLab CI/CD, integrating quality checks and repeatable deployments.
- Wrote unit/integration tests using JUnit, Mockito, TestContainers, following TDD practices and improving reliability.
- Implemented centralized logging/monitoring using Log4j/SLF4J + CloudWatch, supporting faster issue triage.
- Collaborated in Agile/Scrum, participating in sprint planning, daily stand-ups, reviews, and retrospectives.

### **Environment:**

Java 11/17, Spring Boot, Spring Cloud (Eureka/Feign/Config as needed), Microservices, React, Kafka, RabbitMQ, PostgreSQL, MongoDB, AWS (EKS/EC2, RDS, CloudWatch), Jenkins, GitLab CI/CD, GitHub, Docker, Kubernetes, JUnit, Mockito, TestContainers, Log4j/SLF4J, Agile, TDD.

## **Java Full Stack Developer | State Street Corporation, Boston MA**

**August 2021 – September 2023**

### **Project:**

Built an internal Trade Processing and Settlement platform to track trade lifecycle and exceptions in near real time using event-driven microservices. Enabled operations teams to monitor trade status and resolve breaks through a centralized dashboard.

### **Responsibilities:**

- Built an internal React dashboard for trade lifecycle visibility, exception triage, and settlement tracking for operations users.
- Developed Spring Boot microservices for trade ingestion, validation, settlement orchestration, and exception workflow processing.

- Implemented Kafka-based event streaming to publish and consume trade lifecycle events across services with idempotent processing.
- Designed exception handling workflows using RabbitMQ queues with retries, DLQs, and priority-based task routing for ops teams.
- Implemented secure APIs using Spring Security and JWT, enabling role-based access for operations and supervisory users.
- Designed Oracle DB schemas for trade master data, lifecycle status, and exception case management with optimized SQL queries.
- Used MongoDB for storing audit payload snapshots and exception notes to support traceability and operational investigations.
- Containerized services using Docker and deployed on Azure AKS with environment-based configuration and standardized rollout patterns.
- Automated CI/CD using Jenkins and GitLab CI/CD for build, unit tests, integration tests, and Kubernetes deployments.
- Practiced TDD with JUnit/Mockito and integration testing with TestContainers; implemented structured logging and correlation IDs.
- Worked in Agile/Scrum, participating in sprint planning, daily standups, reviews, retrospectives, and production support.

**Environment:** React, Java 11/17, Spring Boot, Spring Cloud/Microservices, Kafka, RabbitMQ, Oracle DB, MongoDB, Azure (AKS), Jenkins, GitLab CI/CD, GitHub, Docker, Kubernetes, JUnit, Mockito, TestContainers, Log4j/SLF4J, Agile, TDD

## **Java Full Stack Developer | 3i Infotech Ltd, IN**

**August 2021 – September 2023**

### **Project:**

Built an internal Digital Loan Origination and Underwriting platform to automate loan intake and approval workflows. Used event-driven microservices to process risk validation and underwriting decisions. Provided a centralized dashboard for tracking application status and exceptions.

### **Responsibilities**

- Developed user-facing web screens using Angular (4+) to capture loan applications and display application status for agents and underwriters.
- Built Java Spring Boot microservices to handle loan application intake, risk validation, underwriting workflow, and approval processing.
- Implemented Kafka-based event communication to track loan application lifecycle events across multiple backend services.
- Designed RabbitMQ workflows to manage underwriting review queues, retries, and exception handling for manual approvals.
- Designed and maintained PostgreSQL database schemas to store loan applications, decisions, and status history with optimized queries.
- Secured REST APIs using Spring Security and JWT, enabling role-based access for agents, underwriters, and supervisors.
- Automated build and deployment processes using Jenkins and GitLab CI/CD, deploying containerized services on AWS.
- Wrote unit and integration tests using JUnit and Mockito, followed TDD practices, and implemented logging for monitoring and troubleshooting

**Environment:** Angular 4+, Java 11/17, Spring Boot Microservices, Kafka, RabbitMQ, PostgreSQL, AWS, Jenkins, GitLab CI/CD, GitHub, Docker, Kubernetes, JUnit, Mockito, Log4j/SLF4J, Agile, TDD

## **Education**

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| • <b>Master of Science – Computer Science</b><br>California State University, San Bernardino, CA.                                  | <b>December 2025</b> |
| • <b>Bachelor of Technology – Computer Science and Engineering</b><br>Jawaharlal Nehru Technological University, Hyderabad, India. | <b>August 2016</b>   |

## **Certification**

- AWS Certified Solutions Architect – Associate

**January 2026**