

# **BHARATH RAVULA**

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## **Professional Summary:**

- Senior Java Full Stack Developer with **8+ years of experience** delivering **large-scale internal enterprise platforms** across automotive, healthcare, retail, and financial services domains.
- **AWS Certified Solutions Architect – Associate**, with strong ownership of **production-ready, highly available cloud systems** supporting mission-critical operations.
- Proven expertise owning the **end-to-end application lifecycle**, from architecture and design through development, deployment, monitoring, and production support.
- Extensive experience designing **microservices-based architectures** that are scalable, loosely coupled, and resilient.
- Strong expertise in building **secure RESTful APIs** with comprehensive validation, standardized exception handling, and backward compatibility.
- Hands-on experience implementing **event-driven and asynchronous processing models** to support real-time enterprise workflows.
- Advanced frontend experience building **role-based, enterprise-grade user interfaces** with a focus on usability, performance, and reusability.
- Deep experience with **relational and NoSQL databases**, including schema design, query optimization, and transactional integrity enforcement.
- Proven ability to design and support **high-availability systems** with fault tolerance and operational stability.
- Extensive experience deploying and operating applications in **AWS and Azure production environments**.
- Strong background designing and owning **CI/CD pipelines** to automate builds, deployments, and environment promotions.
- Hands-on experience using **GitHub** for enterprise version control, branching strategies, and peer code reviews.
- Strong advocate of **Test-Driven Development (TDD)** with comprehensive unit testing practices.
- Extensive experience using **JUnit and Mockito** to ensure code quality and regression stability.
- Implemented **centralized logging and monitoring** to support observability and faster incident resolution.
- Experienced in **Agile/Scrum delivery models**, collaborating with cross-functional teams.
- Acted as a technical mentor, guiding junior developers and enforcing enterprise engineering standards.

## **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 Description:** Designed and delivered an internal enterprise platform to manage dealer operations, inventory coordination, and service workflows across regional dealer networks. The system enabled dealership staff and corporate users to access centralized dashboards with real-time operational insights. This platform significantly improved operational visibility, coordination, and decision-making efficiency across dealer and corporate teams.

#### **Responsibilities:**

- Designed and developed responsive, user-friendly interfaces using **Angular**, enabling dealership staff and corporate users to efficiently manage operational workflows through centralized dashboards.
- Implemented reusable **Angular components, services, and routing mechanisms** to support role-based access control and seamless navigation across multiple functional modules.
- Integrated frontend components with backend services using **RESTful APIs**, ensuring secure, real-time data exchange for inventory, operations, and service workflows.
- Optimized frontend performance through **lazy loading, modular architecture, and reusable UI components**, improving application responsiveness and scalability.
- Designed and developed backend services using **Java** and **Spring Boot**, supporting dealer operations, inventory coordination, and service lifecycle management.
- Built secure and scalable **REST APIs** with robust request validation, exception handling, and standardized error responses to ensure system reliability.
- Implemented authentication and authorization mechanisms to enforce secure access and protect sensitive operational data across dealer and corporate users.
- Developed asynchronous processing logic to handle operational events and workflow triggers, improving overall system efficiency and responsiveness.
- Deployed and managed application components on **AWS EC2**, ensuring high availability, scalability, and fault tolerance for enterprise workloads.
- Monitored application health and system performance using **AWS CloudWatch**, enabling proactive identification and resolution of production issues.
- Designed and optimized **PostgreSQL** schemas, queries, and indexes to maintain data integrity, support transactional consistency, and improve query performance.
- Implemented automated **CI/CD pipelines** to streamline build, test, and deployment processes across development, staging, and production environments.
- Managed source code using **GitHub**, following enterprise branching strategies, pull request reviews, and version control best practices.
- Developed comprehensive **unit tests** and followed **Test-Driven Development (TDD)** practices to ensure high code quality and minimize regression issues.
- Actively participated in **Agile/Scrum ceremonies**, including sprint planning, daily stand-ups, backlog grooming, and retrospectives, collaborating closely with cross-functional teams.

**Environment:** Java, Spring Boot, Angular, REST APIs, PostgreSQL, AWS EC2, AWS CloudWatch, CI/CD Pipelines, GitHub, JUnit, TDD, Log4j, Agile/Scrum

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

**August 2021 – September 2023**

**Project Description:** Built an internal enterprise solution to coordinate operational workflows across multiple healthcare departments and facilities. The platform allowed clinical and administrative users to manage tasks,

approvals, escalations, and exceptions through a unified interface. The system improved turnaround times, accountability, and operational transparency across healthcare operations.

**Responsibilities:**

- Architected and implemented interactive workflow-driven user interfaces using **React**, allowing clinical and administrative users to track tasks, approvals, and escalations across departments.
- Developed highly reusable **React components** with efficient state handling to support complex workflow lifecycles and role-specific operational views.
- Consumed secure backend services through **RESTful APIs**, enabling real-time synchronization of healthcare operational data across multiple facilities.
- Enhanced frontend usability and performance by optimizing component rendering and minimizing unnecessary re-renders in high-traffic workflow screens.
- Engineered backend business logic using **Java** and **Spring Boot** to orchestrate healthcare operational workflows, approvals, and exception scenarios.
- Implemented robust **REST API** layers with input validation, centralized error handling, and consistent response models to ensure system reliability.
- Applied role-based security controls to safeguard sensitive healthcare operations data and enforce authorization policies across user groups.
- Built asynchronous processing mechanisms to handle workflow escalations, notifications, and state transitions without impacting system performance.
- Hosted and maintained backend services on **Azure App Services**, ensuring application scalability, availability, and stable runtime performance.
- Leveraged **Azure monitoring and diagnostics** to track application health, capture runtime metrics, and proactively resolve production issues.
- Designed and tuned **Oracle Database** objects, including tables, indexes, and queries, to maintain data accuracy, consistency, and high-performance workflow processing.
- Established automated **CI/CD pipelines** to support continuous integration, controlled deployments, and seamless environment promotion.
- Governed source code management using **GitHub**, enforcing version control standards, peer reviews, and structured branching strategies.
- Created extensive **unit test suites** and adhered to **Test-Driven Development (TDD)** principles to improve code quality and reduce defects.
- Collaborated within **Agile/Scrum teams**, contributing to sprint planning, backlog refinement, and iterative delivery of healthcare workflow enhancements.

**Environment:** Java, Spring Boot, React, REST APIs, Oracle Database, Azure App Services, CI/CD Pipelines, GitHub, JUnit, TDD, Log4j, Agile/Scrum

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

**August 2021 – September 2023**

**Project Description:** Developed an internal enterprise platform to track inventory movement and automate replenishment decisions across retail locations. The system provided operations teams with near real-time visibility into stock levels and operational alerts. This solution reduced stock-outs, improved inventory accuracy, and optimized supply chain efficiency.

**Responsibilities:**

- Designed and developed interactive inventory dashboards using **React**, enabling operations teams to monitor stock levels, replenishment status, and operational alerts across multiple retail locations.
- Built reusable and modular **React components** to support scalable inventory views, role-based access, and consistent user experiences across operational screens.
- Optimized frontend performance by improving component rendering, state management, and client-side validations for high-volume inventory datasets.

- Developed backend services using **Java** and **Spring Boot** to process inventory transactions, replenishment logic, and operational alert workflows.
- Implemented **RESTful APIs** with strong request validation, standardized exception handling, and secure data exchange between frontend and backend systems.
- Built asynchronous processing logic to handle inventory updates and alert generation without impacting system responsiveness.
- Deployed and managed application services on **AWS EC2**, ensuring reliable availability and scalability for enterprise retail workloads.
- Implemented monitoring and operational visibility using **AWS CloudWatch** to track system health, performance metrics, and inventory processing events.
- Designed and maintained **MongoDB** collections to store inventory movements, audit records, and replenishment exceptions with efficient query performance.
- Automated build and deployment processes using **CI/CD pipelines**, enabling consistent releases and controlled environment promotions.
- Managed source code using **GitHub**, following structured branching strategies, peer reviews, and version control best practices.
- Developed comprehensive **unit tests** using **JUnit** while adhering to **Test-Driven Development (TDD)** practices to ensure code quality and stability.
- Implemented centralized application **logging** using **Log4j** and delivered features through **Agile/Scrum** methodologies in collaboration with cross-functional teams.

#### **Environment:**

Java, Spring Boot, React, REST APIs, MongoDB, AWS EC2, AWS CloudWatch, CI/CD Pipelines, GitHub, JUnit, TDD, Log4j, Agile/Scrum

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

**August 2021 – September 2023**

**Project Description:** Built an enterprise platform to track financial transaction lifecycles and operational exceptions across business units. The system enabled finance teams to monitor processing status, investigate failures, and resolve issues efficiently. This platform supported regulatory reporting requirements while improving operational transparency and processing reliability.

#### **Responsibilities:**

- Designed and developed transaction monitoring dashboards using **Angular**, enabling finance users to track transaction lifecycles, statuses, and operational exceptions across business units.
- Built reusable and configurable **Angular components** to support reporting views, exception handling screens, and role-based access for finance and operations teams.
- Enhanced frontend performance by optimizing data binding, component rendering, and client-side validations for high-volume transactional data.
- Developed backend services using **Java** and **Spring Boot** to manage transaction processing workflows, exception handling, and operational status tracking.
- Implemented secure **RESTful APIs** with strong validation, standardized exception handling, and authorization controls to support financial processing requirements.
- Designed backend logic to support regulatory reporting needs, ensuring reliable transaction state management and audit readiness.
- Deployed and maintained application services on **GCP**, ensuring stable, scalable, and production-ready environments for financial workloads.
- Implemented monitoring and operational visibility to track application health, transaction failures, and processing latency in production.
- Designed and optimized **MySQL** schemas, queries, and indexes to ensure transactional consistency, data integrity, and efficient reporting access.
- Automated build and deployment workflows using **CI/CD pipelines**, managing source control and peer reviews through **GitHub**.

- Developed **unit tests** following **Test-Driven Development (TDD)** practices, implemented centralized **logging**, and delivered features using **Agile/Scrum** methodologies.

**Environment:** Java, Spring Boot, Angular, REST APIs, MySQL, GCP, CI/CD Pipelines, GitHub, JUnit, TDD, Log4j, Agile/Scrum

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

**August 2021 – September 2023**

**Project Description:** Developed an internal reporting portal to standardize operational metrics and reporting across multiple business units. The portal enabled users to access consistent dashboards and validated enterprise data from a centralized system. This solution improved reporting accuracy and decision-making.

### **Responsibilities:**

- Developed interactive reporting dashboards using **React**, allowing users to access standardized operational metrics and enterprise reports from a centralized interface.
- Built reusable **React components** to support consistent data visualization, filtering, and role-based access across reporting screens.
- Supported backend service development using **Java** and **Spring Boot** to retrieve, validate, and aggregate reporting data from multiple business sources.
- Assisted in implementing **RESTful APIs** with basic validation and error handling to deliver reliable reporting data to frontend components.
- Deployed and supported application components on **AWS**, helping maintain stable and accessible environments for internal reporting workloads.
- Retrieved and validated structured reporting data using **SQL**, ensuring data accuracy, consistency, and alignment with enterprise reporting standards.
- Assisted with automated build and deployment activities using **CI/CD pipelines** and managed source control through **GitHub**.
- Practiced **unit testing**, followed **Test-Driven Development (TDD)** guidelines, implemented application **logging**, and contributed within an **Agile** development environment.

**Environment:** Java, Spring Boot, React, REST APIs, SQL, AWS, CI/CD Pipelines, GitHub, JUnit, TDD, Log4j, Agile

## **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**

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| • AWS Certified Solutions Architect – Associate | <b>January 2026</b> |
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