

# **PRATHYUSHA KODURU LOKESHBABU**

**Java Full-Stack Engineer | Spring Boot | Microservices | AWS | React.js**

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## **SUMMARY**

- Around 6 years of experience designing, developing, and deploying Java-based enterprise applications across financial, healthcare, and AI automation domains.
  - Delivered scalable platforms handling 50K+ daily transactions, reducing API latency by 20%+ through caching, load optimization, and microservice refactoring.
  - Proven experience with AWS (EC2, S3, Lambda), Docker, and CI/CD pipelines (Jenkins, GitHub Actions) for automated build, testing, and deployment.
  - Strong background in SQL (PostgreSQL, MySQL) and NoSQL (MongoDB, Redis) databases, with focus on performance tuning, indexing, and caching strategies.
  - Collaborated with DevOps and QA teams for automation, monitoring, and production support using Resilience4j, Kafka, Sentry, and Metabase.
  - Skilled in JWT/OAuth2 authentication, 508/WCAG accessibility compliance, and building enterprise-grade secure applications.
  - Excellent communicator and agile team player with a focus on delivering clean, maintainable, and production-ready code.
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## **TECHNICAL SKILLS**

**Programming Languages:** Java, JavaScript (ES6+), SQL

**Backend:** Spring Boot, Spring Cloud, Hibernate/JPA, Maven, Gradle, JWT, OAuth 2.0

**Frontend:** React.js, Redux Toolkit, Hooks, Context API, HTML5, CSS3, Material-UI

**Cloud & DevOps:** AWS (EC2, S3, Lambda), Docker, Jenkins, GitHub Actions, Azure

**Databases:** PostgreSQL, MySQL, MongoDB, Redis (caching)

**Messaging & Monitoring:** Apache Kafka, RabbitMQ, Resilience4j, Metabase, Sentry

**Testing & Collaboration:** JUnit, Mockito, Jest, Jira, Confluence, Agile/Scrum

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## **PROFESSIONAL EXPERIENCE**

### **Application Engineer | Vanguard– Malvern, PA | Feb 2024 – Present**

**Domain: Digital Payments & Financial Reporting Platform**

- Designed and implemented Spring Boot microservices for transaction authorization, reconciliation, and audit logging and processing 50K+ daily financial transactions.
- Integrated Spring Cloud Gateway for intelligent routing and Resilience4j for circuit breaking, improving system uptime by 25%.
- Added Redis caching for payment endpoints to minimize redundant queries, reducing database latency by 22% and boosting API responsiveness.
- Configured Apache Kafka for asynchronous message queuing between microservices, ensuring reliable event-driven processing for payment status updates and reconciliation logs.
- Enhanced React.js, and Redux Toolkit dashboards for payment status, refunds, and reporting, improving data load time by 18%.
- Tuned PostgreSQL joins and indexes to improve financial report generation and batch reconciliation.
- Automated CI/CD pipelines via GitHub Actions with integrated JUnit & Selenium test suites.
- Partnered with QA/DevOps to execute blue-green deployments and maintain zero downtime rollouts.

**Tech Stack:** Java, Spring Boot, Spring Cloud, React.js, Redux Toolkit, PostgreSQL, Redis, Kafka, AWS, Docker, Resilience4j, GitHub Actions

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## **Software Developer | Humana – Remote, US| Jan 2023 – Nov 2023**

### **Domain: Generative AI-Enabled Healthcare Automation Platform**

- Built and optimized Spring Boot and FastAPI microservices for document classification, claims automation, and benefit summarization.
- Integrated Azure Document Intelligence and OpenAI APIs to automate healthcare document extraction and summarization.
- Developed REST APIs supporting RAG (Retrieval-Augmented Generation) for real-time policy data lookup.
- Containerized and deployed microservices to Azure App Service using Docker, ensuring compliance and scalability.
- Created React.js dashboards for internal analytics of AI confidence metrics and anomaly detection.

**Tech Stack:** Java (Spring Boot), Python (FastAPI), React.js, Azure Document Intelligence, Azure Cognitive Search, OpenAI APIs, Docker, Redis

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## **Software Engineer | Capgemini – Bangalore, IN | Nov 2020 – Aug 2022**

### **Domain: Banking & Loan Origination System**

- Developed modular Spring Boot microservices handling loan origination workflows and integrated credit bureau and KYC services for automated verification.
- Implemented Spring Security with JWT/OAuth2 for secure multi-tenant authentication and authorization.
- Optimized Hibernate/JPA queries and introduced MongoDB for document-style storage of unstructured loan metadata, improving retrieval time for audit and history reports by 30%.
- Configured Sentry for centralized exception tracking and worked with DevOps on Jenkins pipelines for automated hotfix deployments.
- Designed reusable React.js components for portfolio summaries and loan dashboards using Hooks and Context API.
- Collaborated with DBA teams to tune PostgreSQL indexes and optimize read/write-heavy transaction tables.

**Tech Stack:** Java, Spring Boot, React.js, Hibernate/JPA, PostgreSQL, MongoDB, Docker, Jenkins, Sentry, Jira, Agile/Scrum

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## **Junior Developer | Orbinet – Bangalore, IN | Nov 2019 – Oct 2020**

- Developed REST APIs for vendor management, payroll, and budget reporting using Spring Boot with MySQL for both transactional operations and reporting modules.
- Integrated MySQL for document-based audit logs and JSON-structured invoice data, improving retrieval time for analytics by 25%.
- Created optimized SQL queries with indexing and joins across MySQL, improving data processing efficiency by 20%.
- Designed modular React.js components and Bootstrap-based UIs, reducing redundant front-end code by 20%.
- Configured Docker environments and build scripts for seamless developer onboarding and local QA testing.

**Tech Stack:** Java, Spring Boot, React.js, MySQL, Docker, GitHub Actions, JUnit, Mockito, Agile/Scrum

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## **EDUCATION**

Master of Science in Management Information Systems | Central Michigan University | MI, USA

Bachelor of Technology in Computer Science | Sri Venkateswara Engineering College | TIRUPATI, INDIA