Sri Charan Balakundhi

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Summary

Software Engineer with 5+ years of experience building scalable microservices and distributed systems using Java, Spring Boot, and event-driven architecture. Skilled in designing RESTful APIs, implementing Kafka-based async messaging, and deploying cloud-native applications on AWS/Azure. Proven ability to deliver high-performance backend services and optimize system reliability across telecom, SaaS, and AI domains.

Education

- **Northeastern University** *Sep 2023 - May 2025*
  MS Computer Software Engineering Boston, MA
  - Relevant Coursework: Object Oriented Design, Web Design, Program Structures and Algorithms, Enterprise Software Design, Software Design Patterns, Advance Big-data indexing techniques.

Experience

- **Saayam for All** *Aug 2025 - Present*
  Full Stack Developer San-Jose, CA
  - Engineered 6+ production microservices using Spring Boot and **Domain-Driven Design patterns**, implementing **clean architecture** principles with clear separation of concerns (Entity-Service-Repository layers) and achieving 85%+ test coverage through JUnit/Mockito unit and integration testing.
  - Designed and implemented event-driven volunteer matching system processing 10K+ daily requests using **Kafka pub-sub messaging, Redis caching** for sub-50ms response times, and optimized JPA queries reducing database load by 40%
  - Built polyglot microservices stack: Java/Spring Boot for core business logic, **Python/FastAPI** for ML/AI services, and React/React Native for cross-platform web/mobile UIs, orchestrated via API Gateway with AWS Cognito-based OAuth2/JWT authentication.
  - Established CI/CD pipelines with **infrastructure-as-code** (CloudFormation/Pulumi), automated testing (JUnit/Mockito), and observability stack (CloudWatch, X-Ray, distributed tracing) achieving 99.9% uptime for production Kubernetes clusters on EKS.

- **Founderway.ai** *May 2024 - Aug 2024*
  Full Stack Engineer Intern Richmond, VA
  - Architected event-driven microservices processing **10K+ daily AI requests** using Spring Boot, Kafka for async messaging, and Redis caching, achieving **<200ms p95 latency.**
  - **Built scalable LLM orchestration layer** with PostgreSQL audit trails, idempotent Kafka consumers for exactly-once processing, and DLQ handling reducing failed requests by 60%.
  - Engineered backend orchestration with **prompt validation**, error handling, and usage/cost tracking, backed by a **PostgreSQL** history service for reliable, auditable AI responses.
  - Built context checks and reusable React/Next.js UI components to validate inputs and streamline chat workflows, improving reusability, performance, and secure user interactions.
  - Deployed across multi-cloud environments: leveraged **AWS (Lambda, S3, API Gateway)** for serverless AI endpoints and Azure PaaS for orchestration, integrated with CI/CD pipelines for secure, automated delivery.

- **Openreach (BT Group)** *Aug 2015 – Nov 2019*
  Software Engineer → Senior Software Engineer Pune, India & Leeds, UK
  - Worked on Openreach's telecom provisioning systems through **Tech Mahindra Limited** and **Infosys Limited** as consulting vendors.
  - Designed and **deployed event-driven microservices** handling 500K+ daily telecom orders with 99.95% uptime using **Spring Boot, Kafka/RabbitMQ messaging**, and **DDD patterns**, reducing provisioning time by 30%.
  - **Engineered high-throughput ETL pipelines** processing 2M+ records daily with Java thread pools, PL/SQL optimizations, and parallel processing, improving SLA compliance by 45% through performance tuning
  - Led cloud migration initiatives by refactoring monolithic applications into AWS-hosted **microservices** with **CI/CD (Git, Jenkins, Maven)** on **AWS** using **Infrastructure-as-Code** (Terraform, CloudFormation), improving scalability, reliability, and reducing deployment downtime by 50%.
  - **Built internal developer platform (ASG Portal)** using Spring MVC for automated bulk operations and deployment checks across multiple microservices, eliminating 60% of manual operational work.
  - Established comprehensive testing strategy with unit tests (JUnit/Mockito), integration tests (Spring Boot Test), and E2E automation (Selenium), maintaining 80%+ code coverage monitored via **SonarQube**.

SKILLS

- **Programming:** Java, JavaScript/TypeScript, Python, SQL, Bash
- **Frameworks:** Spring (Boot, MVC, Cloud, WebFlux, JPA, Security), FastAPI, Node.js, Express.js, React, Next.js
- **Data & Messaging:** PostgreSQL, Oracle, MySQL, MongoDB, Redis, Apache Kafka, RabbitMQ
- **Cloud & DevOps:** AWS, Azure, Docker, Kubernetes, CI/CD (Jenkins), Terraform
- **Tools:** Git, Jira, Agile/Scrum, **Microservices Patterns** (Circuit Breaker, CQRS, Saga)
- **Testing & Observability:** JUnit, Mockito, Selenium, SonarQube, ELK Stack, Prometheus, Grafana, Zipkin, Distributed Tracing
- **AI:** Generative AI (LLM integration, RAG, prompt engineering), Spring AI, OpenAI, Anthropic and Java SDK
- **Certifications:** *AWS Certified Solutions Architect* – **Associate**, AWS Certified **Generative AI Developer** – **Professional** (pursuing)

PROJECTS

- **TransPix – *AI-Powered Image Processing Platform*** – Built a full-stack **Spring Boot + React** platform with **LLM integration**, PostgreSQL, Redis, RabbitMQ, and **AWS S3** for chat-based image transformations and asynchronous processing.
- **RetailHub – Microservices E-Commerce Platform** – Developed **scalable microservices architecture** using Spring Boot, **Spring Cloud** (Eureka, Gateway), Spring Data JPA, H2/PostgreSQL, Maven, **REST APIs,** implementing service registry, **API gateway routing**, and independent service deployment with Git version control.
- **GlobeMediWatch** – Developed a community health platform using the **MERN** stack deployed on Azure for event management and medical record tracking.
- **AutoNexus** – Implemented an extensible vehicle rental and purchase system in Java using core **OOP principles** and **GoF design patterns** to improve modularity and maintainability.