

Manoj Reddy Ponagandla

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Summary

Full Stack Software Engineer with 5+ years of experience building scalable, cloud-native applications using Java (Streams, Concurrency), Spring Boot, and React with TypeScript. Proven ability to modernize legacy systems, design high-performance APIs, and leverage GenAI tools to accelerate delivery while maintaining production-grade quality.

Skills

Languages	Python, Java (Streams, Concurrency), JavaScript, TypeScript
Frameworks	Spring Boot, FastAPI, React.js, Angular, GraphQL
Cloud & DevOps	AWS (S3, AppRunner, CloudWatch), Kubernetes, Jenkins, GitHub Actions
Datastores	PostgreSQL (Supabase), MySQL, MongoDB, Firebase RTDB
Messaging	Apache Kafka
Testing	JUnit 5, Mockito, Jest, Mocha, Chai
Security	OAuth 2.0, Secure API Development
GenAI	GitHub Copilot, Amazon Q, ChatGPT, Cursor

Experience

Charter Communications / Spectrum

Jul 2021 – Present

SOFTWARE ENGINEER 3 — REACT.JS / JAVA SPRING BOOT / GRAPHQL

- Modernized production microservices by migrating Java 8/Jersey systems to Java 17 and Spring Boot 3.x, improving security, performance, and maintainability.
- Built high-throughput Spring Boot APIs using Java Streams, functional patterns, and concurrent processing.
- Developed GraphQL services with Node.js and upgraded React 16 applications to React 18.
- Improved system reliability through Kafka workflow enhancements, resilient DocuSign integrations, and Kubernetes-based debugging.
- Led internal AI enablement and accelerated delivery using Amazon Q and GitHub Copilot.

CribMD

Apr 2021 – Jul 2021

SOFTWARE ENGINEER INTERN — NODE.JS / PYTHON

- Built backend services using Node.js and MongoDB and designed batch-processing microservices.
- Implemented JIRA Service Desk automation, reducing customer response time by 24 hours.
- Automated onboarding workflows and built structured APIs, reducing frontend effort by 30%.
- Developed unit and integration tests with Mocha and Chai.

Projects

DESIROOMY (DESIROOMY.APP)

- Built a full-stack roommate-matching platform using Supabase (PostgreSQL).
- Implemented OAuth 2.0 authentication, automated email workflows, and Supabase Edge Functions.
- Integrated PostHog analytics to guide product iteration.

BARELY COMPLICATED

- Built a FastAPI backend for QR code generation, containerized with Docker and deployed on AWS AppRunner.
- Developed a React.js frontend hosted on AWS Amplify.

FIND MY OPERATOR

- Built a two-sided platform connecting business owners with operators.
- Implemented secure messaging, search, and filtering features.

Education

University of Missouri-St. Louis

Dec 2020

M.S. IN COMPUTER SCIENCE (ARTIFICIAL INTELLIGENCE)

Artificial Intelligence Graduate Certificate

Anurag Group of Institutions, Hyderabad, India

May 2018

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING

Certifications

Artificial Intelligence Graduate Certificate — University of Missouri-St. Louis

Machine Learning Certificate — eCornell, Cornell University (2024)

MedCerts Cybersecurity Analyst (CySA+) — Vulnerability Management & Threat Detection

Achievements

Judge — LA Hacks 2025, University of California, Los Angeles

Judge — MHacks 2025, University of Michigan, Ann Arbor