

# Manoj Reddy Ponagandla

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## Summary

Software Engineer III with 5+ years of experience designing and operating cloud-native, distributed systems at scale. Currently leading back-end and platform initiatives at Charter Communications, building resilient Spring Boot microservices deployed on AWS and Kubernetes with a strong focus on reliability, automation, and operational excellence. Experienced in reducing toil through CI/CD automation, infrastructure improvements, and observability enhancements while supporting production systems serving high-volume traffic.

## Skills

Languages	Java, Python, TypeScript, JavaScript, SQL
Cloud & Infrastructure	AWS, Kubernetes, Docker, Azure (familiarity), Linux, Cloud-native architecture
Distributed Systems	Microservices architecture, REST APIs, Event-driven systems, Kafka, High-availability design
DevOps & Automation	CI/CD, GitHub Actions, Jenkins, Git, Containerization, Infrastructure automation, Monitoring and logging
Databases	PostgreSQL, MySQL, MongoDB, Redis (familiarity), Relational and NoSQL modeling
Practices	Agile, Code reviews, Incident response, Production support, Documentation-first communication, On-call support

## Experience

Charter Communications	Aug 2021 – Present
Software Engineer 3 — Java, Spring Boot, AWS, Kubernetes	Missouri, USA
<ul style="list-style-type: none"><li>Designed and operated cloud-native Spring Boot microservices deployed on AWS and Kubernetes, supporting high-volume production traffic with strong availability targets.</li><li>Implemented CI/CD pipelines using GitHub Actions and Jenkins to automate build, test, and deployment workflows, reducing release cycle time and operational toil.</li><li>Improved service reliability through proactive monitoring, structured logging, and performance tuning, reducing incident recurrence and improving MTTR.</li><li>Collaborated with cross-functional teams to migrate legacy services to modern microservices architecture, enhancing scalability and fault isolation.</li><li>Participated in production support and on-call rotations, performing root cause analysis and implementing long-term reliability fixes.</li><li>Led code reviews and mentored junior engineers on platform best practices, clean architecture, and secure coding standards.</li></ul>	
CribMD	Jan 2020 – Jul 2021
Software Engineer — Java, Spring, Distributed Systems	Remote
<ul style="list-style-type: none"><li>Built and maintained backend services for a healthcare platform, designing secure REST APIs and scalable service integrations.</li><li>Collaborated in a distributed remote team environment, contributing to asynchronous design discussions and documentation.</li></ul>	

## Projects

DESIROOMY (DESIROOMY.APP)
<ul style="list-style-type: none"><li>Built a cloud-native platform using Next.js and Supabase (PostgreSQL) with secure authentication and API-driven workflows.</li><li>Designed scalable backend logic and automated deployment pipelines to support production workloads.</li><li>Implemented analytics and monitoring to track user behavior and system performance.</li></ul>
BUSINESS & OPERATORS PLATFORM
<ul style="list-style-type: none"><li>Developed a full-stack management platform using Next.js and REST APIs to support operational workflows.</li><li>Designed database schemas and backend services to ensure secure data handling and system scalability.</li><li>Automated CI/CD workflows to streamline releases and reduce manual deployment effort.</li></ul>
BARELY COMPLICATED TOOLS SUITE
<ul style="list-style-type: none"><li>Built a suite of cloud-deployed web tools using React and FastAPI to automate everyday workflows.</li><li>Containerized services and implemented automated deployments to improve operational consistency.</li><li>Focused on reliability, maintainability, and low-toil architecture for sustainable platform growth.</li></ul>

## 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; MHacks 2025, University of Michigan, Ann Arbor
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