PRADYUMNA CHIPPIGIRI

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SUMMARY

Software Engineer with 3+ years of experience building distributed systems, optimizing backend performance, and delivering scalable microservices for FinTech and HealthTech platforms. Proficient in designing and integrating AI/ML infrastructure and optimizing cloud resources for large-scale systems.

TECHNICAL SKILLS

Languages:	Java, Python, JavaScript, SQL
Backend:	Spring Boot, Hibernate, JPA, Flask, Kafka, RabbitMQ
Frontend:	React, Next.js, HTML, TailwindCSS
Cloud & DevOps:	Microsoft Azure, AWS, Docker, Kubernetes, GitHub Actions, Jenkins, Prometheus, Grafana, ELK Stack
Databases:	MySQL, DynamoDB, Redis, MongoDB
Software Design:	OOP, SDLC, TDD, CI/CD, Agile, Unit Testing, Code Reviews Design Patterns, System Design
Certifications	AWS Certified Cloud Practitioner, AWS Certified AI Practitioner

EXPERIENCE

Software Engineer Intern Jan 2025 – May 2025

CLD-9 Remote (Austin, TX)

- Built scalable, low-latency **Flask Python REST APIs** to **integrate AI-powered solutions** into existing backend systems for a health supplement platform, boosting customer engagement by **20%**
- Collaborated with **product stakeholders** to develop user-centric reusable components using **React**, driving a **3x** increase in customer transactions and boosting conversion funnels.
- Architected robust **CI/CD pipelines** and optimized cloud resource utilization, achieving a **25%** reduction in **AWS** infrastructure costs and a **20%** faster deployment cycle.

Software Engineer Jan 2021 – Jul 2023

Societe Generale Global Solution Centre Bengaluru, India

- Developed and maintained **10+ Java Spring Boot** microservices for a client-facing banking application, leveraging **Kafka** and **ELK stack** for asynchronous messaging and debugging, mitigating over **$3M** in regulatory risks.
- Resolved performance bottlenecks in **3 Spring Boot** microservices, including **SQL** query optimizations, improving system resiliency and reducing API response times by **8%** under peak load.
- Championed best practices in an **Agile Scrum** environment by implementing **JUnit test cases** with **SonarQube**, maintaining **80%** code coverage and improving backend reliability.
- Managed numerous production releases, led bug investigations, and actively contributed to on-call support rotations

EDUCATION

University of Colorado Boulder Aug 2023 – May 2025

Master of Science in Computer Science, GPA: 3.94/4.0 Boulder, CO

RV College of Engineering Aug 2017 – May 2021

Bachelor of Engineering in Electronics and Communications, GPA: 8.48/10 Bengaluru, India

PROJECTS

GenAI Document Intelligence system - 2nd Place Winner Sep 2024 – May 2025

- Delivered a POC **GenAI**-driven tool to automate property record parsing using **Python**, **Azure Document Intelligence** and **Llama APIs**, significantly improving data extraction efficiency, and deployed on **Azure Web Apps** for scalable access
- Developed an intuitive **React** frontend to present complex data (**20+ fields** per document) and deliver structured **JSON** outputs for downstream integration with systems.

Distributed Music Separation as a Service - Code Oct 2024 – Dec 2024

- Designed a distributed system for audio separation using **master-worker** architecture with **Python backend, Redis queue** and deployed on **AWS EKS** with **AWS S3 storage**, reducing job latency by 45%.

Medical Device Management System - Code Mar 2024 – May 2024

- Implemented a production-ready microservices architecture using **Java Spring Boot**, incorporating security, messaging, caching, monitoring, and distributed tracing for scalability and fault tolerance.

Trail Explorer – Full Stack Hiking Application - Code Jan 2024 – Mar 2024

- Created a full-stack hiking app with **React** and **Python Flask**, integrating **Google Places API**, real-time weather data, and deployed on **AWS ECS** with **CI/CD** via GitHub Actions.

Employee Attrition Prediction - Code Sept 2023 – Dec 2023

- Built employee attrition prediction model using **6 ML algorithms** on IBM HR dataset, achieving **94%** accuracy and identifying key retention factors.