

Sakshat Patil

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Summary

Graduate software engineer with 2.5 years of professional backend experience. Proficient in **C++**, **Python**, and **Java** with strong CS fundamentals. Passionate about writing clean, well-architected code that delivers **performance, reliability, and scalability**. Seeking to apply **distributed-systems** expertise and an entrepreneurial curiosity about how technology powers financial markets.

Education

San Jose State University, Master of Science in Software Engineering

- **Coursework:** Data Structures and Algorithms in C++, Operating Systems, Database Management Systems

University of Mumbai, Bachelor of Engineering in Electronics and Telecommunications

GPA: 3.65/4.00

- **Coursework:** Structured Programming Approach, Object-Oriented Programming with Java

Experience

Software Engineer, Reliance Jio — Mumbai, India

- Owned backend development for four production modules in **CloudXp** (hybrid-cloud platform) supporting cost analytics, governance, and advisory services.
- Improved API latency **85%** (120 s to 30 s) by profiling Java Spring Boot services and optimizing SQL queries.
- Led migration from Oracle to PostgreSQL with schema redesign and query tuning, boosting reliability and scalability.
- Built automated CI/CD workflows in Azure DevOps and orchestrated Dockerized microservices on Kubernetes clusters across AWS, Azure, and on-prem environments.
- Collaborated with data engineering teams to trigger Spark batch jobs and stream results to production dashboards, ensuring systems met performance requirements.
- Mentored junior engineers on clean-code practices, monitoring, and incident response, fostering continuous improvement.

Projects

GitCast: GitHub-to-Podcast Accessibility Platform

- Converts any GitHub repository into an audio podcast in the user's native language, lowering language barriers for open-source learning.
- Engineered a FastAPI backend that converts code to podcasts; deployed on AWS EC2 and Vercel.
- Demonstrated scalable microservice design and real-time content delivery.

MedAssist: Agentic AI-Powered Medical Triage System

- Built a full-stack triage platform using React, FastAPI, and TypeScript, integrating AgentKit and Anthropic Claude for autonomous medical case analysis.
- Implemented agents for calling, appointment scheduling, document processing, and PDF generation; leveraged Twilio for real-time emergency alerts.
- Deployed serverless logic on AWS Lambda with static assets on S3, showcasing end-to-end production deployment.

Technical Skills

Languages: C++, Python, Java, SQL

Frameworks & APIs: Spring Boot, FastAPI, RESTful design

Cloud & Infra: AWS, Azure, GCP, IBM Cloud, Red Hat OpenStack

DevOps & Tools: Git, Azure DevOps, GitHub Actions, Docker, Kubernetes, CI/CD pipelines