Sakshat Patil

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Education

San Jose State University, Master of Science in Software Engineering · *May 2027*
- **Relevant Coursework:** Agentic Enterprise Software Platform, Machine Learning, Data Structures and Algorithms

University of Mumbai, Bachelor of Engineering in Electronics and Telecommunications · *Aug 2018 – May 2022*
- **Relevant Coursework:** Structured Programming Approach, Object-Oriented Programming with Java

Experience

Software Engineer, Reliance Jio · *Jul 2022 – Jan 2025*
- Built and maintained **4 scalable backend modules** for **CloudXp, a Hybrid Cloud Management Platform** designed to help businesses manage and optimize their cloud infrastructure across various cloud providers, serving users with hybrid cloud **analytics and governance** services.
- Architected scalable backend microservice solutions, collaborating with solution architects to **define technical specifications and create solution documents**.
- Improved **API response latency by 85%** by profiling **Java Spring Boot** services and optimizing **SQL queries**, reducing average latency from **1.3s to 200ms**.
- Migrated **15+ microservices** from **Oracle to PostgreSQL**, redesigning schemas, implementing **multi-threaded/concurrent query processing**, and improving **query throughput by 40%**, enhancing reliability and scalability.
- Designed **CI/CD pipelines using Azure DevOps**; deployed **Dockerized services across AWS, Azure, and on-prem Kubernetes clusters**.
- Partnered with data teams to integrate Spark batch jobs and stream outputs to real-time dashboards.
- Mentored **5 junior engineers** in clean code practices, debugging, and on-call rotations; led **code reviews** to maintain **production quality**.

Software Development Intern, WebReach · *Nov 2021 – Jul 2022*
- **Evaluated and validated** Flutter through a successful **Proof of Concept (POC)** to pave the way for building and deploying cross-platform mobile apps, significantly boosting the team's development velocity.
- Engineered responsive web apps using **JavaScript**, optimizing the user interface for mobile and desktop to increase accessibility and engagement.
- Debugged and resolved 20+ issues following **Agile practices** and used Git for version control, ensuring on-time project delivery

Technical Skills

Languages: Java, C++, Python, Oracle SQL, JavaScript
Frameworks & APIs: Spring Boot, FastAPI, React, Angular, RESTful APIs
Cloud & Infra: AWS, Kubernetes, Docker
DevOps & Tools: Git, Azure DevOps, CI/CD pipelines, Redis, Elasticsearch
ML & AI: LLMs, Anthropic API, Hugging Face, Langchain

Projects

GitCast: GitHub-to-Podcast Accessibility Platform ([GitHub](#)) ([Devpost](#)) · *UC Berkeley AI Hackathon, 2025*
- Developed a **multi-lingual accessibility platform** that converts GitHub repositories into native-language podcasts, **breaking down language barriers for non-English speakers.**
- Designed an **agentic pipeline with Orkes and LangChain** to orchestrate workflows, intelligently summarizing and translating technical **documentation with Anthropic Claude and generating audio with LMNT**.
- Implemented a vector database with Chroma DB to support **Retrieval-Augmented Generation (RAG)**, enabling context-aware summarization of code and project files.

MedAssist: Agentic AI-Powered Medical Triage System ([GitHub](#)) · *AWS MCP Hackathon, 2025*
- Engineered an **AI-powered medical triage system** that analyzes clinical documents (PDF, DOCX) to provide real-time risk assessments and automated emergency notifications.
- Designed a scalable backend pipeline using Python and FastAPI to orchestrate intelligent document analysis with Anthropic Claude and deliver instant alerts via Twilio.
- Built a responsive user interface with React and TypeScript, enabling users to upload medical documents and receive comprehensive risk reports with detailed severity levels.