

Siddhivinayak Pundlik Sawant

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Summary

Currently pursuing a B.Tech in Computer Engineering with Honors in Artificial Intelligence and Machine Learning (AIML) at Fr. C. Rodrigues Institute of Technology (FCRIT). Passionate about software engineering, with strong analytical thinking, problem-solving, and collaborative skills, eager to apply technical expertise to develop innovative and impactful solutions.

Skills

- Programming & Web Development:** Java, Python (Basics), C, JavaScript, TypeScript, MERN Stack (MongoDB, Express.js, React, Node.js), Next.js
- Databases & Backend:** MySQL, PostgreSQL, MongoDB, Supabase, Node.js, Express.js
- Frontend & UI:** React, React Native, Next.js, UI/UX principles
- Tools & DevOps:** Git, GitHub, Docker

Education

B.Tech, Computer Science And Engineering

Fr. Agnel Polytechnic, Vashi

Expected Graduation: 2027

CGPA: 8.43 / 10 (Till Sem 4)

Experience

Sapphire Infocom Pvt. Ltd.

Software Engineer

Mumbai, Maharashtra

Dec 2025 – Present

- Contributing to full-stack software development in a production environment, applying Java, MERN stack, and DevOps principles to deliver scalable enterprise solutions.
- Collaborating cross-functionally on system design, feature implementation, and code reviews in an agile team setting.

Projects

CodeGuard — Next.js 16, Node.js, Docker, Redis, BullMQ, Supabase, Gemini AI

Aug 2025 – Present

- Built a **scalable code execution engine** using pre-warmed Docker containers, reducing cold starts by **90%** and supporting **200+ concurrent users**.
- Developed a **real-time web terminal** with WebSockets, Node-PTY, and Xterm.js for a native CLI experience in the browser.
- Designed a **clean analytics dashboard** with Tailwind CSS and Framer Motion to visualize student performance.
- Integrated an **AI debugging assistant** using Google Gemini to generate context-aware error resolutions.

AI-Based Healthcare Diagnostics Platform — Next.js 19, Node.js, Python (FastAPI), PyTorch

May 2025 – July 2025

- Architected a **tri-service diagnostic system** (Next.js, Express, FastAPI) to process X-ray, MRI, and CT scans with **sub-second latency**.
- Built an **Explainable AI (XAI) pipeline** using PyTorch and Grad-CAM, generating interpretable heatmaps and risk levels (Low/Medium/High).
- Designed a **high-performance clinical UI** using Next.js Server Components and Bento-style layouts.
- Implemented a **secure, HIPAA-aligned backend** with RBAC and strict TypeScript validation to protect patient data.

MahaTourism – Smart Travel Companion — Expo

February 2025 – April 2025

- Developed a cross-platform mobile app allowing users to seamlessly book flights, hotels, and travel packages in one place.
- Integrated an AI-powered itinerary planner to customize travel plans based on user preferences, simplifying travel planning.
- Ensured smooth UX/UI across platforms, improving user engagement and adoption rates.

Certifications

- Oracle Cloud Infrastructure 2025 Certified Data Science Professional** — Oracle
- Deloitte Australia - Technology Job Simulation** — Forage
- Deloitte Australia - Cyber Job Simulation** — Forage
- Basic Electronics Bridge Course** — FCRIT
- 30 hrs Java Bridge Course** — FCRIT
- MERN Stack Developer** — Success Classes of Engineering
- Java Programming** — Success Classes of Engineering
- Deloitte Australia - Data Analytics Job Simulation** — Forage
- HackQuinox 2.0** — FCRIT
- Mastering C & C++ Programming** — Udemy