

Sarthak Pingale

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TECHNICAL SKILL

Core Expertise: Java, Go, Node.js, Express.js, SQL, MongoDB, Docker

Familiar / Tools: Python, JavaScript, React, Kubernetes, Jenkins, Redis, AWS, GCP, Linux

EXPERIENCE

Full Stack Developer Intern | [GitHub](#) | [Live-Link](#)

Sep 2025 – Nov 2025

Infosys Springboard

Remote

- Developed a full-stack civic engagement platform enabling citizens **to report cleanliness issues with geo-tagged photos, track complaint status, and coordinate with volunteers**, featuring **interactive Leaflet maps, real-time comments, and admin analytics dashboards** with graphs and pie charts.
- Streamlined complaint resolution workflows, achieving a **30% faster issue turnaround** during testing by integrating real-time updates and status tracking.
- Implemented secure backend functionality using Express and MongoDB **with role-based access control**, Cloudinary uploads, cookie sessions, and a CORS-enabled architecture, and developed a responsive React frontend with TailwindCSS and Vite featuring **multi-role dashboards** and streamlined complaint workflows.
- Enhanced system reliability by deploying services via **Vercel and Render**, ensuring consistent uptime and simplified CI/CD-based deployments.
- Delivered a production-ready platform supporting **100+ test users**, reducing manual coordination time by **40%**.

PROJECTS

Real-Time Anonymous Communication Platform | React.js, Socket.IO, WebRTC, Redis, Docker, Nginx | [Live Link](#)

[GitHub](#)

- Built a scalable **real-time** anonymous chat application supporting **peer-to-peer** video calls, audio calls, and messaging.
- Implemented **Redis-based** matchmaking queues and Pub/Sub for efficient multi-instance socket synchronization and user pairing.
- Designed low-latency **WebRTC** signaling workflows, including TURN support for NAT traversal.
- Containerized frontend and backend services with Docker and configured **Nginx** reverse proxy for WebSocket handling.

Full-Stack Expense Tracker | React, Tailwind CSS, Node.js, Express, MongoDB, JWT |

[GitHub](#)

- Developed a responsive Expense Tracker application leveraging **React.js and Vite** for the frontend and **Node.js/Express** for the backend, delivering a seamless user experience across mobile and desktop devices.
- Implemented Authentication & Authorization workflows using **JWT** and local storage strategies to maintain secure, persistent user sessions.

Self-Hosted Home Server (Minecraft + NAS) | *Ubuntu Server, CasaOS, Tailscale, Playit.gg*

- Built and maintained a self-hosted homelab environment on Ubuntu Server for hosting Minecraft servers, NAS services, and containerized applications.
- Deployed and managed lightweight **Kubernetes clusters** (K3s/MicroK8s) to experiment with container orchestration, service deployment, scaling, and infrastructure automation.
- Managed multiple self-hosted services using CasaOS with centralized monitoring, storage management, and web-based administration.
- Enabled secure remote access using Tailscale VPN and exposed selected services publicly through Playit.gg tunneling and reverse proxy configurations.

EDUCATION

Modern Education Society's Wadia College of Engineering

Pune, 411001

Bachelor of Engineering | Computer Engineering

Aug. 2024 – ongoing

ACHIEVEMENTS

Hackathon - State level Finalist Qualified for the State-Level Buildathon (OpenAI Academy) by building an AI-powered exam preparation chatbot for personalized practice and doubt resolution.