

Rahul N Bangera

Full-Stack & DevOps-Focused Software Engineer | SDE Intern | CSE '27

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Summary

Final-year CSE student who has spent the past year operating production systems, not prototyping them: a hostel platform serving **2,000+ students and staff** that I build and keep running myself, live on the **Play Store and App Store**, and the platform that ran a 36-hour hackathon for **3,000+ participants**. Comfortable end to end, from Postgres schema design to BullMQ workers and CI/CD.

Technical Skills

- Languages:** TypeScript, JavaScript, Python, Go, Java, C++
- Frontend & Mobile:** React.js, Next.js, React Native, Expo, Tailwind CSS, HTML, CSS
- Backend & APIs:** Node.js, Express.js, tRPC, GraphQL, REST APIs, WebSockets, BullMQ
- Databases & Caching:** PostgreSQL, MongoDB, Redis, Prisma, Drizzle ORM, Mongoose
- DevOps & Infrastructure:** Docker, GitHub Actions, Linux, Nginx, Dokploy, Cloudflare, PM2, CI/CD, VPS Deployment
- Tools:** Git, GitHub, Postman, Figma, Cloudinary

Experience

Inspirante Technologies

Nov 2025 – Present

Software Development Engineer Intern

- Primary developer of **The Warden**, a hostel management platform serving **2,000+ students and 20+ staff** across 4 hostels and 11 blocks, with **400 daily active users** on web and native apps live on the **Play Store and App Store**.
- Own delivery end to end across Next.js web apps, an Expo React Native app, Node.js services, PostgreSQL, and Redis, authoring the majority of the codebase on a 3-person team.
- Operate Dockerized production on a VPS using Dokploy, Cloudflare, and GitHub Actions CI/CD, owning releases, health checks, and live incident debugging.

Projects

The Warden – Institutional Hostel Management Platform [Live](#)

Nov 2025 – Present

Tech: Next.js, Node.js, PostgreSQL, Redis, BullMQ, Drizzle ORM, Expo, Docker, Dokploy

- Built a biometric attendance pipeline for **2,000+ students**, moving punch processing onto **BullMQ** workers so simultaneous gate-hour bursts are absorbed by a queue instead of overloading the API.
- Engineered late-punch reconciliation with a **Redis sliding-window ticker**: punches arriving after gate-end due to biometric device network failures restart a 30-minute window, then automatically recalculate attendance and notify staff of exactly which records changed.
- Designed a fault-tolerant bulk student import that infers column semantics from inconsistent spreadsheets, normalizes values against database entities, and surfaces conflicts before commit.
- Automated post-gate-end attendance digests over email and push, reducing daily reconciliation to a single review step.
- Architected the multi-app system, student web app, admin dashboard, backend services, auth, and React Native client, replacing paper-driven attendance, leave, maintenance, and allocation workflows.

HackFest'26 Platform – Website & Operations Dashboard [Live](#) | [GitHub](#)

Dec 2025 – Apr 2026

Tech: Next.js, TypeScript, Drizzle ORM, PostgreSQL, Redis, BullMQ, Docker, Dokploy

- Built and led the official platform for a 36-hour national hackathon handling **3,000+ registrations, 700+ teams, and 550+ idea submissions**, served with zero downtime from a single 4 vCPU / 16 GB VPS.
- Digitized the full evaluation funnel: two online screening rounds where **30 evaluators** scored 550+ submissions to shortlist 60 finalists, then on-site mentoring, two judging rounds, and multi-panel finals, all in-platform.
- Implemented judge-normalized scoring so panels could compare finalists on equal footing and select winners directly in the dashboard, with BullMQ background jobs processing evaluation results across stages.
- Shipped a 14+ module operations dashboard spanning participants, attendance, accommodation, announcements, and logistics, enabling paperless execution.

Leadership & Campus Involvement

Finite Loop Club – NMAMIT

Jun 2024 – Present

Vice President (Tech), Jan 2026 – Present | Technical Head, Aug 2025 – Dec 2025 | Developer, Jun 2024 – Jul 2025

- Served as **Organizer and Tech Lead for HackFest 2026**, leading an 8-person engineering team, personally owning backend and dashboard development while delegating and reviewing frontend modules.
- Drive club technical direction: architecture and code review, developer mentorship, and production platforms for events and operations.

Achievements

- Second Runner-up – CodeKudla 2026** Aug 2026
- Runner-up – Innovex National-Level Hackathon** Nov 2025
- Winner – HackExpo S3 Intra-College Hackathon** Mar 2025

Education

NMAM Institute of Technology – B.Tech, Computer Science & Engineering, CGPA 8.89/10 Aug 2023 – 2027

SNG Composite PU College, Mulki – Pre-University Science, 88.5% Jun 2021 – Apr 2023