

SATYAM GAIKWAD

(+91) 7822099563 · satyam.m.gaikwad@gmail.com · [Linkedin](#) · [GitHub](#) · [Portfolio](#)

EDUCATION

MIT Academy of Engineering, Pune, Maharashtra

Aug 2023 - Jun 2027

- **BTech Computer Engineering** (Pursuing)
- **Relevant Coursework:** Data Structures & Algorithms, DBMS, Operating Systems, Object-Oriented Programming, Software Engineering, Enterprise Application Development (Java)

EXPERIENCE

Project Lead — Law Enforcement & Monitoring System | DCP Office, Pune

Feb 2026 - Mar 2026

- Developed a government-grade, real-time boundary monitoring system for law enforcement using Node.js and WebSockets.
- Designed a role-based access control (RBAC) architecture to handle secure data streaming for department-wide use.

Full-Stack Engineer | Freelance | Pune

Aug 2025 - Sep 2025

- Delivered 5+ end-to-end web applications for diverse client requirements (Booking, CMS, Auth).
- Optimized system performance by integrating Redis/caching strategies, resulting in a 20% improvement in API response times.

PROJECTS

Civic Ledger — Civic Issue Reporting & Auto-Routing Platform - [Project](#)

Next.js 14, TypeScript, Node.js / Express, MongoDB, Socket.IO

- Built a full-stack civic-issue reporting platform with 3 role-based dashboards (citizen, department, super-admin) and 20+ REST endpoints; engineered an auto-routing engine that maps 9 issue categories to the right department, with a super-admin reroute queue for edge cases.
- Added real-time status updates via role-scoped Socket.IO rooms and geospatial "issues near you" search using a MongoDB 2dsphere index; secured every route with JWT, bcrypt hashing, and Zod validation.

AquaAlert — Urban Flood Detection System (Team of 4) - [Project](#)

Python, FastAPI, ResNet50 / CNN, Gemini AI, Google Earth Engine, React + Vite

- Built a pixel-level flood-segmentation pipeline on SAR satellite imagery using ResNet50/CNN, achieving 94.3% classification accuracy on a 12 GB dataset spanning diverse Indian metropolitan topographies.
- Integrated Gemini 2.5 Flash for flood-risk reasoning and Google Earth Engine for automated satellite-data sync, served through a FastAPI backend and a React + Vite dashboard.

Library Management System — PHP, MySQL, JavaScript, AWS - [Live](#)

- Built and deployed a role-based (admin / staff / student) library system on AWS (EC2 + RDS) for a college department library managing 3500+ copies and 1500+ student accounts — issue/return with ACID transactions, automated historical-rate fine calculation, OTP-based password reset, email notifications (PHPMailer/SMTP), and CSV bulk import.
- Hardened against common web attacks — prepared statements (SQL-injection-safe), CSRF protection, bcrypt hashing, session timeout, login rate-limiting, env-based secrets — over a normalized, indexed MySQL schema with role-based access control and an audit-log-driven live circulation dashboard.

TECH SKILLS

- **Languages:** C, C++, Java, Python, JavaScript
- **Frontend:** React.js, Next.js, HTML5, CSS3, Tailwind CSS, Bootstrap, Astro
- **Backend:** Node.js, Express.js, PHP, FastAPI
- **Databases:** MongoDB, MySQL, PostgreSQL
- **Tools:** Git, Postman, Firebase, Supabase, Cloudinary, Stripe
- **Concepts:** REST APIs, JWT, WebSockets, MVC
- **Agentic AI:** Prompt Engineering, RAG, LLM, Evals, LangChain

PROBLEM SOLVING & ALGORITHMS

Solved [1400+ DSA problems](#) across cross competitive programming platforms.

- [LeetCode](#) (400+)
- [GeeksforGeeks](#) (300+)
- [Codeforces](#) (350+)