

SHAUNAK KARVE

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 [Shaunak Karve](#) |  [shauncode24](#) |  [X](#)

Mumbai, Maharashtra, India

Technical Focus: Full-stack systems, real-time web applications, and AI-powered tools with an emphasis on scalability, performance, and reliability.

EDUCATION

- **KJ Somaiya School of Engineering**

B. Tech | Computer Science

◦ CGPA: 9.616

July 2023 - July 2027

Mumbai, India

- **RN Podar School**

Pre-University Education

◦ Grade: 89.6%

July 2021 - May 2023

Mumbai, India

EXPERIENCE

- **House of Code (India) Pvt. Ltd. (HOC)**

Software Developer - Trainee (Internship)

June 2025 - July 2025

Mumbai, India

- Developed and shipped 6 production modules for internal Employee Portal (WFO Management, Holiday Calendar, RnR Nominations, Leave Tracking) using ASP.NET Core and Angular, deployed to live environment serving internal workforce.
- Designed and integrated RESTful APIs with role-based access control, implementing CRUD operations across business logic and data access layers following clean architecture principles.
- Built dynamic forms and grid interfaces using DevExtreme components with inline editing, custom validation, and real-time user feedback for admin workflows.
- Implemented complex filtering logic in the business layer for tenure-based eligibility rules and year-wise aggregations, and debugged date-comparison edge cases preventing duplicate fiscal year entries.

PROJECTS

- **Project 1: Campus Intel**

Tools: Python, React, Firebase, Google Gemini Vision

- Built an AI-powered university assistant using RAG and vector search to answer queries across 100+ official documents, with semantic caching to reduce redundant API calls.
- Implemented SSE-based streaming for real-time response delivery and Gemini Vision for multimodal Q&A, enabling automatic deadline extraction from syllabi with calendar-ready outputs.
- Deployed on Firebase with a caching layer for session management and query deduplication.

- **Project 2: Stack Converter (Ongoing)**

Tools: React, Node.js, Express.js, Gemini API, Redis, MongoDB

- Developing an AI-powered codebase migration tool to convert multi-file projects across tech stacks, using AST-based parsing (Babel/Python ast module) instead of regex to preserve dependency graphs and module boundaries.
- Built human-in-the-loop review interface with side-by-side diff view for file-level approval before export, with Redis job queue for asynchronous processing.

- **Project 3: Flood Alert**

Tools: React, Express.js, MongoDB, JWT

- Developed a disaster response platform with role-based access for citizens, government authorities, and NGOs, processing real-time rainfall data and triggering automated alerts via threshold-based monitoring.

- Built citizen reporting module with photo upload and geolocation tagging for crowdsourced damage assessment, integrated with shelter discovery and analytics dashboards for rainfall trend visualization.

- **Project 4: Shared Cart**

Tools: React, PostgreSQL, Flask, FastAPI

- Built a real-time collaborative shopping cart using WebSockets, handling concurrent user updates with optimistic locking and per-user contribution tracking via PostgreSQL triggers.
- Integrated AI chatbot for product suggestions with approval-based item addition, requiring consensus from cart members before auto-adding items to prevent unwanted changes.

SKILLS

- **Languages:** Python, JavaScript, TypeScript, C#, C
- **Frontend Development:** React, Angular, Bootstrap, DevExtreme
- **Backend Development:** Node.js, Express.js, ASP.NET Core, Flask, FastAPI
- **Database Systems:** PostgreSQL, MongoDB, Firebase
- **AI/ML Tools:** RAG, Vector Search, LLM APIs
- **Tools:** Git, Firebase, JWT

CERTIFICATIONS

- Complete Full-Stack Web Development Bootcamp - Udemy