

# Tanmay Bandagale

Full-Stack Developer · AI/ML Enthusiast · Hardware Hacker

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## SUMMARY

Computer Engineering student at Gharda Institute of Technology with hands-on experience building full-stack web applications, AI-integrated tools, and Raspberry Pi hardware systems. Delivered 4 live production websites for freelance clients across e-commerce, global trade, and healthcare. Completed 2 internships and shipped projects ranging from a college ERP to a smart IoT checkout trolley. Comfortable across the entire stack — from database design to polished UI animations.

## EDUCATION

**Bachelor of Engineering — Computer Engineering** *Expected Aug 2025*

Gharda Institute of Technology, Ratnagiri, Maharashtra

**Diploma — Computer Engineering** *83.00%*

Vidyalankar Polytechnic, Mumbai

## WORK EXPERIENCE

**Full Stack Developer** *SUKHAANNAM PVT. LTD | Virtual | Aug – Nov 2025*

*Stack:* HTML, CSS, Bootstrap, Vanilla JS, Node.js, Express.js, MongoDB Atlas, JWT, Razorpay, Vercel

- ▶ Built a full-featured food platform — meal browsing, cart, order placement, subscriptions, and real-time delivery tracking.
- ▶ Implemented JWT-based authentication and Razorpay payment integration for secure checkout.

**Backend Developer Intern** *SVTechshant | Virtual | 2024*

*Stack:* PHP, JavaScript, MySQL

- ▶ Contributed backend APIs for an e-commerce platform — product listings, order management, and inventory tracking.

## FREELANCE CLIENT WORK

**MFFragrance — Premium Perfume E-Commerce** [live ↗](#) [github ↗](#)

*Freelance | 2024 Stack:* Next.js, TypeScript, React, Tailwind CSS, Framer Motion, GSAP, Firebase, Razorpay, Vercel

- ▶ Built a complete e-commerce platform — product catalog (Men/Women/Unisex), cart, wishlist, and newsletter subscription.
- ▶ Firebase Auth for user accounts, Razorpay for secure checkout, and admin inventory panel; deployed on Vercel.
- ▶ Delivered smooth UI animations via Framer Motion + GSAP for a luxury brand feel.

**JD Enterprises Global Trade — Business Website** [live ↗](#) [github ↗](#)

*Freelance | 2024 Stack:* HTML, CSS, JavaScript, responsive design

- ▶ Production B2B website for an international spice export company with 17+ product categories, gallery, and global presence map.
- ▶ WhatsApp inquiry integration, contact form, and GST/IEC certificate display for professional credibility.

### **NeemSai Global — Agricultural Import-Export Website**[live ↗](#)

*Freelance | 2024 Stack: Next.js, TypeScript, Tailwind CSS, Framer Motion, i18n (English + Arabic / RTL)*

- ▶ Bilingual business website for an agricultural commodities company with full Arabic RTL layout support.
- ▶ Smooth scroll animations via Framer Motion and internationalized content switching between English and Arabic.

### **Hospital Appointment Management System**[github ↗](#)

*Freelance | 2024 Stack: Node.js, Express.js, Twilio (SMS & WhatsApp API)*

- ▶ Automated messaging system for hospitals to send appointment reminders and rescheduling notifications via SMS and WhatsApp.
- ▶ Integrated Twilio SMS and WhatsApp APIs with a backend scheduling layer for reliable patient message delivery.

## **PERSONAL PROJECTS**

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### **Smart Checkout Trolley — IoT / Raspberry Pi**[github ↗](#)

*Stack: Raspberry Pi 4B, Python, Flask, OpenCV, pyzbar, HX711, ST7735 TFT, Bluetooth ESC/POS, PostgreSQL, Razorpay*

- ▶ Autonomous checkout: barcode scanning via camera, real-time weight validation via HX711 load sensor, and Bluetooth thermal receipt printing.
- ▶ Razorpay QR payment flow triggered by physical GPIO button; Flask admin panel for stock and session management.

### **College ERP System — GIT — Full-Stack Web App**

*Stack: Next.js 15, TypeScript, Prisma, Neon PostgreSQL, NextAuth v5, Zustand, TanStack Query v5, shadcn/ui*

- ▶ Role-based ERP for a CE department — student, faculty, and admin portals with timetable scheduling, attendance, and learning plans.
- ▶ Built a constraint-based master timetable scheduler with drag-and-drop editing powered by @dnd-kit.

### **SignSync — Sign Language Interpreter — AI / Mobile**[github ↗](#)

*Stack: Flutter, Python, OpenCV, PyTorch / TensorFlow, C++*

- ▶ Real-time sign language recognition app — on-device ML inference, bridging communication between deaf and hearing communities.

### **Smart Visitor Pre-Authorization — Android / Hackathon**[github ↗](#)

*Stack: Java (Android), Firebase, CameraX, ML Kit, MobileFaceNet TFLite*

- ▶ On-device face verification using 128-dim MobileFaceNet embeddings + Euclidean distance matching over a CameraX live feed.

### **DocuMind — AI Document Assistant**

*Stack: Next.js, React, Tailwind CSS, Node.js, Gemini API*

- ▶ AI-powered document Q&A — upload any document, get summaries, insights, and answers via Gemini API; built full-stack end-to-end.

### **AI Chatbot for Cybersecurity Awareness — AI / Security**[github ↗](#)

*Stack: Python (Flask), HTML/CSS/JS, Gemini API*

- ▶ LLM-driven conversational app educating users on real-world cybersecurity scenarios; logs interactions for analysis.

## SKILLS

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**Languages:** JavaScript, TypeScript, Python, Java, PHP, C/C++, HTML, CSS

**Frontend:** Next.js, React, Tailwind CSS, Framer Motion, GSAP, Bootstrap, Flutter

**Backend:** Node.js, Express.js, Flask, PHP, Prisma ORM

**Databases:** PostgreSQL (Neon), MongoDB Atlas, MySQL, Firebase Firestore, SQLite

**AI / ML:** PyTorch, TensorFlow, OpenCV, Gemini API, OpenAI API, nanoGPT, ML Kit

**Tools & DevOps:** Git, GitHub Actions, Vercel, Linux (Fedora), Raspberry Pi, Twilio, Razorpay, NextAuth, JWT

## LANGUAGES

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**Marathi** (Native) · **Hindi** (Fluent) · **English** (Professional)