

DANIEL SHASHANK DESHMUKH

Full-Stack Developer · AI Systems Engineer

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PROFESSIONAL SUMMARY

Computer Science graduate (Mumbai University, 2026) building production software across full-stack web and applied AI. Shipped a live POS system serving real daily customers with zero downtime, and HECTOR, a zero-hallucination legal research engine that combines hybrid BM25 + dense retrieval with a chain-of-verification layer validating every citation against primary source text before it reaches the user. Ranked #71 among active GitHub developers. Comfortable owning a system end to end — architecture, backend, frontend, and deployment.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript (ES6+), HTML5, CSS3, SQL

Frontend: React.js 19, TailwindCSS, Vite, Responsive Design, Figma, SEO Optimisation

Backend & Infrastructure: Node.js, Express.js, FastAPI, PostgreSQL, SQLite, Supabase, REST APIs, WebSockets, Multi-tenant Architecture, Docker, Git/GitHub, Railway, Netlify

AI / Agentic Engineering: LangGraph, LangChain, Retrieval-Augmented Generation (RAG), Vector Databases, Agentic Reasoning, Chain-of-Verification (CoVe), LoRA Fine-Tuning, Multi-model Orchestration, Claude API, Gemini API, Groq API, NVIDIA NIM

Tools & Platforms: Claude Code, Postman, HTTPie, VS Code, WebStorm, Kaggle, HuggingFace

WORK EXPERIENCE

Freelance Full-Stack Developer | Babuji Chaay Café Jul 2024 – Mar 2026 · Mumbai, India

- Developed a production POS and sales management system: end-to-end requirements, architecture, development, and live deployment at babujichaay.com, serving real customers daily with zero reported downtime.
- Built the full-stack system on React.js, Supabase, and Express.js, covering billing, order tracking, inventory control, role-based authentication, and a real-time analytics dashboard.
- Engineered a configurable promotions engine and an automated 'Lucky Customer' discount system requiring zero manual intervention.
- Delivered a companion public-facing café website, giving the client a complete digital brand presence alongside the POS.

Customer Service Associate | Sahakari Bhandar (Reliance Retail) May 2024 – Dec 2024 · Mumbai, India

- Managed high-volume billing and transaction processing with accuracy during peak retail hours.
- Maintained professionalism across 100+ daily customer interactions — communication discipline directly applicable to client-facing technical roles.

PROJECTS

SHREE GURUDEV PLASTICS — Client E-Commerce & SaaS — Next.js 15.5 · TypeScript · SQLite/Turso • In Progress

- Building a full-featured e-commerce and business management platform for a plastics manufacturing client, covering catalog, ordering, and operations.
- Implementing WhatsApp-based cart automation and GST-compliant invoicing tailored to the client's workflow.
- Engaged under a 50/50 payment structure, targeting delivery in mid-September 2026.

PROTEUS — JD-Aware Resume Intelligence Toolkit — Python · NVIDIA NIM · React · FastAPI • Deployed

github.com/DanielDeshmukh/proteus · proteus-phi.vercel.app

- Built a five-agent NVIDIA NIM pipeline (JD Parser → Match Scorer → Gap Analyst → Rewrite Suggester → Cover Letter Generator) that scores resume-to-JD fit and generates targeted rewrite suggestions.
- Full-stack deployment on Vercel; supports pasted text, PDF upload, and URL ingestion.

HECTOR — Zero-Hallucination Legal Research Engine — Python · React · RAG · Vercel • Deployed

github.com/DanielDeshmukh/Hector · hector-nine.vercel.app

- Built a full-stack legal research platform for Indian law (38 bare acts, 13,000+ indexed chunks) with a hybrid BM25 + dense retrieval pipeline and cross-encoder reranking for citation-accurate answers.
- Engineered a chain-of-verification layer that validates every citation against primary source text before returning a response, plus IPC-to-BNS cross-referencing for India's 2023 legal code transition.
- Secured the API with JWT auth, per-key rate limiting, and input sanitization; shipped a public landing site alongside the query app.

GITHUB-PROFILE-SCORE — Embeddable GitHub Profile Scorer — *TypeScript · Node.js · SVG · Vercel* • **Deployed**

github.com/DanielDeshmukh/github-profile-score

- Built and deployed a self-hostable scoring service with 14 SVG card endpoints (job-readiness score, commit streaks, language diversity, contribution heatmap) and optional AI-powered insight callouts.
- Designed the caching layer and GitHub GraphQL data fetcher, diagnosing and fixing null-check and timeout bugs under real request load.

Additional Projects: THEMIS (LoRA fine-tune of Mistral 7B on Indian statutory law), Ella (agentic clinical triage engine, ~1.8s response time), AETHER (agentic security audit simulator), TradeX (fintech trading system using PPO reinforcement learning)

github.com/DanielDeshmukh

EDUCATION

Bachelor of Computer Science *Graduated May 2026*

Shree L.R. Tiwari Degree College, Mumbai University · CGPI: 7.38 / 10

CERTIFICATIONS & LEARNING

- Anthropic: Claude with Anthropic API · Claude Code 101 · Claude Code in Action · Intro to Agent Skills · Intro to Sub Agents · Intro to MCP · MCP Advanced Topics · AI Fluency for Builders (8 certificates, 2026)
- Harvard CS50: Introduction to AI with Python (12 projects) · Introduction to Databases with SQL
- freeCodeCamp: JavaScript Algorithms & Data Structures · Front-End Development Libraries · Responsive Web Design