

AMITABH ANMOL PAIN

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EDUCATION

Dayananda Sagar College of Engineering
B.Tech in Computer Science

Bangalore, India
Aug 2023 – Aug 2027

EXPERIENCE

Open Source Contributor — Hacktoberfest

MLH & GitHub

Remote

Oct 2025 – Nov 2025

- Delivered **10+ production-quality pull requests** across frontend and backend repositories
- Resolved **UI, backend, and deployment issues** improving system reliability
- Recognized with **Super Contributor badge**

PROJECTS

VitalEase — Gamified Mental Health Platform — Flask, MongoDB, Redis, WebSockets

- Built a **scalable backend system** with secure RESTful APIs
- Implemented **Redis caching** for fast score retrieval
- Integrated **WebSockets** for real-time progress tracking
- Optimized media delivery using Cloudinary

Real Estate Platform — Flask, MongoDB, React, RabbitMQ

- Developed a **full-stack property marketplace** with secure REST APIs
- Implemented **event-driven background jobs using RabbitMQ**
- Reduced API response latency by moving heavy processing to **asynchronous workers**
- Enabled **admin-user communication endpoints** and authentication rate limiting

Real-Time Chat Application — MERN, WebSockets, Redis

- Engineered a **low-latency messaging system** using WebSockets
- Used **Redis in-memory caching**
- Reduced message retrieval latency from **7 seconds to 2 milliseconds**
- Designed scalable session management architecture

Real Estate AI Agent — Streamlit, Google ADK

- Built an **AI-based property assistant**
- Used **Gemini LLM** for personalized insights

TECHNICAL SKILLS

Languages: Python, JavaScript, C/C++

Frameworks: React, Flask, FastAPI, Node.js, Express, Tailwind CSS

Databases: MongoDB, SQL, Redis, SQLite

Cloud & Deployment: AWS, Vercel, GitHub Actions

AI Tools: Google ADK, Ollama, ChatGPT, Gemini, Claude, GitHub Copilot, v0

Tools: Docker, Git, GitHub

Data: Pandas, NumPy, Matplotlib, NLP

ACHIEVEMENTS

- Finalist — Atria College Hackathon
- Participant — Bolt World's Largest Hackathon
- Built MVP solution for kirana shop owners at Walmart Sparkathon