

# AMITABH ANMOL PAIN

Portfolio | 9380303071 | amitabhanmolpain888@gmail.com | LinkedIn | GitHub

## EDUCATION

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**Dayananda Sagar College of Engineering**

*B.Tech in Computer Science*

Bangalore, India

*Aug 2023 – Aug 2027*

## EXPERIENCE

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**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

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**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

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**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

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