

# Amitabh Anmol Pain

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## EDUCATION

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### Dayananda Sagar College of Engineering

*B.Tech in Computer Science*

Bangalore, India

Aug 2023 – Aug 2027

### Venkat International Public School

*Science (PCMC)*

Bangalore, India

Aug 2021 – May 2023

## EXPERIENCE

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### Open Source Contributor — Hacktoberfest

Oct 2025 – Nov 2025

*Powered by MLH and GitHub*

*Remote*

- Drove measurable open-source impact by delivering 10+ high-quality Pull Requests and Merge Requests across diverse repositories
- Resolved critical UI, backend, and deployment issues, significantly improving application stability and maintainability
- Recognized for meaningful contributions with the Tree Nation Certificate and Super Contributor badge

## PROJECTS

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### VitalEase – Gamified Mental Health Platform | Flask, MongoDB, Redis, WebSockets

- Architected a scalable mental health platform to support users dealing with depression, anxiety, and PTSD through interactive therapeutic games
- Implemented Redis caching for high-speed score storage and retrieval, significantly reducing database latency
- Developed a secure RESTful API backend using Flask with MongoDB as the primary database for patient and admin management
- Integrated WebSockets for real-time progress tracking, notifications, and seamless data synchronization
- Utilized Cloudinary for optimized image storage and management of user profiles and medical assets
- Designed role-based access control enabling structured workflows for patients and administrators

### Restaurant Management System | Flask, MongoDB, React, Tailwind

- Built an analytics-driven system providing real-time profit/loss insights for food items
- Visualized business metrics using Pandas and Matplotlib to support data-driven decisions

### Real-Time Chat Application | MERN, WebSockets, Redis

- Architected a low-latency real-time messaging platform using WebSockets
- Integrated Redis for message caching, session management, and scalable real-time communication

### Consumer Justice AI Agent | Google ADK, Django

- Designed and deployed a smart AI-powered consumer justice agent to combat digital fraud and unfair trade practices
- Guided users step-by-step on identifying consumer fraud, understanding legal rights, and filing formal complaints
- Created real-world social impact by simplifying access to consumer protection mechanisms through conversational AI

## TECHNICAL SKILLS

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**Languages:** Python, JavaScript, C/C++

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

**Databases:** MongoDB, SQL, Supabase, Redis

**Tools:** Docker, Git, GitHub

**Data & ML:** Pandas, NumPy, Matplotlib

## ACHIEVEMENTS

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- **Finalist — Atria College Hackathon**