

Amitabh Anmol Pain

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EDUCATION

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

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

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

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

- **Finalist — Atria College Hackathon**