

Pallab Das

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EDUCATION

Vellore Institute of Technology (VIT)

M.Tech (Integrated) in Software Engineering; CGPA: 9.16/10

Vellore, India

July 2024 – May 2029

Homerton Grammar School

Class XII, CBSE; Percentage: 90.2%

Faridabad, India

2024

EXPERIENCE / INTERNSHIPS

Project Engineer (Academic Role)

VIT, Vellore

Full-Stack Developer

September 2024 – November 2025

- Built and launched a production website with React, Prisma, and JavaScript for 500+ VIT students.
- Collected feedback from 150+ students and shipped 15+ UI/UX improvements, boosting engagement.
- Independently managed planning, development, testing, and deployment across a 14-month lifecycle.
- Conducted 30+ code reviews and debugging sessions, improving code quality and peer learning.

PROJECTS

Centralized Exchange — Crypto Trading Platform (Live | Github) *TypeScript, Next.js, Redis, TimescaleDB, Docker*

- Architected a crypto exchange as a Turborepo monorepo with 6 services, from matching engine to UI.
- Engineered an in-memory orderbook with price-time priority, partial fills, and cancels via Vitest tests.
- Designed event-driven order flow with Redis queues/pub-sub, streaming live depth and trade updates.
- Persisted trades in TimescaleDB with materialized views powering 1m/1h/1w candlestick (kline) charts.

Exciladraw — Collaborative Whiteboard (Live | Github) *Next.js, TypeScript, WebSockets, Prisma, PostgreSQL*

- Built a real-time whiteboard with multi-user shared rooms as a monorepo (web + HTTP API + WS server).
- Enforced JWT authentication with bcrypt-hashed passwords and role-safe access to drawing rooms.
- Developed a WebSocket server syncing and persisting room activity across all connected clients.
- Used Prisma ORM with PostgreSQL for persistence and Zod for shared client-server validation.

Ventilair — Industrial Ventilation Web Platform (Live | Github)

React, Framer Motion, Vercel

- Developed a high-performance, SEO-optimized corporate site for an industrial ventilation manufacturer.
- Created an interactive product catalog with 20+ products, specifications, and image galleries.
- Integrated Framer Motion animations and micro-interactions, deployed live at lcdas.in.

SKILLS SUMMARY AND RELEVANT COURSEWORK

Languages: C/C++, Python, Java, JavaScript, TypeScript, SQL

Frameworks: React, Next.js, Node.js, Express, Tailwind CSS, Prisma, Hugging Face Transformers

Tools & Technologies: AWS, Docker, Redis, WebSockets, Turborepo, Git, GitHub, PostgreSQL, TimescaleDB

Libraries: Pandas, NumPy, OpenCV

Coursework: Data Structures & Algorithms, OOP, DBMS, Operating Systems, Computer Networks

ACHIEVEMENTS / PORs / CERTIFICATIONS

- Secured 2nd place in ForkThis (coding + GitHub collaboration) by CSI VIT at Gravitas 2024 & 2025.
- Completed Hacktoberfest 2024 with 4+ merged open-source PRs, earning the official digital badge.

EXTRACURRICULARS

- Led Satyarthi House to 2nd place in the annual inter-house sports competition as sports captain.
- Actively contribute to open-source repositories and student developer communities on GitHub.