

Aadish Vikram Chakravorty

Varanasi - 221010, India

+91-7992188988 | chakravortyaadish.work@gmail.com | [GitHub](#) | [LinkedIn](#)

Summary

Software Developer with strong fundamentals in full-stack development, clean code, and problem-solving. I turn ideas into fast, reliable solutions and enjoy simplifying complex problems. Known for quick learning, consistency, and ownership, with hands-on experience from real projects and competitive coding.

Education

Vellore Institute of Technology – Bhopal Sep. 2022 – Expected 2026

Bachelor of Technology in Computer Science and Engineering

Coursework: Data Structures and Algorithms, Computer Networking, Operating Systems, Multi-Threading, Database Systems, Object-Oriented Programming, Digital Logic Design

Experience

Bluestocks Mar. 2025 – May 2025

Software Developer – Intern

Pune, India

- Architected a scalable full-stack IPO analytics platform using **React.js** and **Django**, processing real-time financial data for 20+ active IPOs.
- Designed and standardized **8 RESTful API** endpoints using **Django REST Framework (DRF)** to efficiently serialize complex datasets for frontend consumption.
- Implemented a data-driven interface with **Chart.js**, optimizing data visualization which reduced user comparison time by an estimated **15%**.
- Deployed the application using **Docker** containerization on **AWS EC2**, establishing a CI/CD workflow for continuous integration and feedback.

Projects

Codex Visualizer | Next.js, Node.js, Socket.io, MongoDB [GitHub](#)

- Developed a real-time developer tool to visualize asynchronous code execution, utilizing **WebSockets** to reduce debugging latency by **40%**.
- Constructed a scalable execution engine using **Node.js** to parse and process user code securely, implementing **sandboxing** to prevent unsafe operations.
- Deployed the full-stack architecture on **Vercel** and **Render**, achieving **99.9% uptime** and handling concurrent user sessions efficiently.

Synapse | Next.js, FastAPI, Pinecone, OpenAI/Ollama [GitHub](#)

- Built a spatial knowledge management system where content is auto-organized on an infinite 2D canvas using **Vector Embeddings** and clustering algorithms.
- Engineered a multi-modal ingestion pipeline (Text, Audio, PDF) using **Node.js** streams and **LangChain** to parse and index unstructured user data in real-time.
- Implemented a **Force-Directed Graph algorithm** on the frontend to dynamically render connections between thousands of nodes without performance lag.

FluxNode | React, IndexedDB, WebSockets, CRDTs (Yjs) [GitHub](#)

- Architected a "Local-First" sync engine using **IndexedDB** and **Service Workers**, enabling seamless offline editing and data persistence.
- Designed a conflict-free synchronization using **CRDTs (Yjs)** to ensure mathematical consistency across distributed clients.
- Optimized an UI pattern for 0ms latency interactions, managing background reconciliation queues to sync server state.

Skills

Programming Languages: C++, Java, Python, HTML5, JavaScript (ES6+), TypeScript

Frameworks & Libraries: React, Next.js, Vite, Express.js, Tailwind CSS, Redux, Flask

Tools & Technologies: Git, GitHub, Docker, AWS (EC2, S3), Linux/Bash, Postman, IntelliJ IDEA, VS Code

Backend & Security: RESTful APIs, WebSockets, JWT, OAuth 2.0, Microservices, Service Workers

Database and AI: Supabase, Firebase, PostgreSQL, MySQL, IndexedDB, Vector DBs (Pinecone), LangChain

Soft Skills: Team Leadership, Cross-Functional Collaboration, Ownership, Agile Development, Analytical Problem Solving, Communication

Certifications

- AWS Certified Solutions Architect (2025)** – Associate: Validated expertise in designing scalable, distributed systems on Amazon Web Services (AWS).
- Salesforce Developer Certification (2025)** – Certified in building custom applications and managing backend logic within the Salesforce ecosystem.

Achievements & Leadership

- Hacksagon Hackathon (2025)** – Recognized as a finalist among over 600 teams for developing a smart home automation system with advanced IoT integration.
- National Science Day (2024)** – Won 1st place at the National Science Day competition with a Smart Home Automation prototype showcasing innovative IoT applications.
- Core Web Team Member, Data Science Club (2024)** – Optimized the club's official platform by implementing **Next.js** frontend components and enhancing backend performance using Node.js.
- Head Boy, Central Hindu Boys School (2021)** – Elected to lead a student body of 2,300+ students, coordinating large-scale academic initiatives and serving as the primary liaison between faculty and students.