# Aditya Kumar Jha

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## Education

**Delhi Technological University** CGPA: 7.77
*B.Tech. in Computer Science and Engineering* *Aug. 2023 – May 2027*

**Kendriya Vidyalaya, AFS Tughlakabad**
*XII: 77.4%* *X: 91.6%* *Apr. 2010 – Jul. 2023*

## Experience

**Software Engineer Intern** Jun. 2025 – Aug 2026
*NZeroC AI (formerly n0c tech)* *Remote – India*

- Contributed to the company's Jan. 2026 product pivot, rebuilding frontend systems for an **industrial Edge AI platform**.
- Designed and deployed the company website (nzeroc.ai) using **Next.js**, achieving a **95+ Lighthouse score**, reducing load time by 35%, and integrating Google Analytics.
- Developed **fleet management**, Stripe billing, Cerbos RBAC (9 roles), and an append-only audit trail across a Next.js dashboard and Fastify/Prisma backend.
- Implemented automated tests with **Vitest** and deployed demo, staging, and production environments on **Azure** using Docker.

## Projects

**Tradexcel** | *Next.js, TypeScript, Express, PostgreSQL, Prisma, Socket.IO* Live | GitHub

- Developed a **gamified stock market simulator** for **258 live-priced NSE stocks**, featuring market, limit and stop-loss orders, contests, 1v1 duels, leaderboards and **19 achievements**.
- Engineered an **ACID-compliant trading engine** using Prisma transactions and database constraints, with **6 cron jobs** for contest settlement, queued orders, price alerts and weekly resets.
- Integrated a **real-time price feed** with market-hours-aware caching and an **ML-powered assistant** for platform and portfolio queries, achieving approximately **9ms inference latency**.

**HobbyHive** | *Next.js, TypeScript, Express, PostgreSQL, pgvector, FastAPI* Live | GitHub

- Created a **hobby-based social platform** with **100+ REST APIs** across 18 modules, featuring personalized feeds, practice streaks, skill maps, DMs and real-time live rooms.
- Implemented **embedding-based semantic search** with pgvector, improving top-3 result relevance from **57% to 90%**, alongside automatic hobby tagging.
- Integrated a **locally deployed RAG assistant** that answers questions from community posts with citations, running on a **1GB server** without paid APIs.

**Argus** | *TypeScript, Fastify, Kafka, PostgreSQL, Redis, Next.js* Live | GitHub

- Developed an **event-driven security analytics platform** ingesting 3+ log sources through Kafka, with **15 detection rules** mapped to MITRE ATT&CK.
- Implemented **incident correlation** and AI-powered incident summarization with multi-provider LLM support and deterministic fallback.
- Delivered a **real-time security dashboard** featuring live alerts, log search, and end-to-end event tracing.

## Technical Skills

**Languages**: C/C++, Python, JavaScript, TypeScript
**Frameworks & Libraries**: React, Next.js, Node.js, Express.js, Fastify, FastAPI, Tailwind CSS
**AI/ML**: PyTorch, Scikit-learn, Sentence Transformers, ONNX, Embeddings, Semantic Search, RAG, LLM Integration
**Databases & Messaging**: PostgreSQL, pgvector, MongoDB, Redis, Kafka, Firebase
**Cloud & Developer Tools**: AWS (EC2, RDS, S3), Azure, Docker, Git, GitHub, GitHub Actions, Postman
**CS Fundamentals**: Data Structures and Algorithms, DBMS, OOP, Operating Systems, Computer Networks

## Positions of Responsibility

**Placement Coordinator** Jan. 2026 – Present
*Training & Placement Cell, Delhi Technological University* *New Delhi, India*

- Coordinated recruitment across **10+ companies** for **2000+ students**, managing assessments, interviews, and offers.
- Led **DEI hiring initiatives** with recruiters, supporting candidate eligibility and inclusive recruitment.

## Achievements

- Shortlisted among the **Top 100** students nationwide for **Uber's She++** event in Hyderabad.
- Solved **1000+** coding problems across **LeetCode**, **Codeforces**, and GeeksforGeeks; ranked **421/35,000+** globally in LeetCode Biweekly Contest 163 (Rating: **1871**, Knight).
- Achieved a peak **Codeforces** rating of **1068** and ranked **8,494/24,000+** participants in a Div. 2 contest.
- Selected among the **Top 50/200** teams in the **SIH 2024** Internal Hackathon and won the online **The Dev Challenge** Hackathon on Devpost.