

AMAN JHA

Full Stack Developer | DevOps (Cloud-Native)

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Education

B.Tech in Artificial Intelligence & Machine Learning

2024 – Present

Netaji Subhash Engineering College, Kolkata

CGPA: 8.7 / 10

Work Experience

Full Stack Developer Intern

April 2026 – June 2026

Techno India Group — Kolkata (Hybrid)

- Designed and developed **TIG-Yukti**, a custom enterprise examination creation and assessment platform used across multiple colleges under the **Techno India Group** for placement preparation, student evaluations, and institution-wide examinations.
- Built a dedicated mock test platform for **Techno International New Town** featuring exam management, student authentication, automated evaluation, and result processing. prepjee.tint.edu.in

Projects

• TIG-Yukti — Enterprise Examination Platform | *Next.js, TypeScript, Node.js, PostgreSQL, Prisma*

- Built an enterprise examination platform for creating, conducting, evaluating, and managing online assessments.
- Implemented an **offline-first examination engine** with automatic synchronization during network failures.
- Developed persistent exam-state recovery, allowing students to resume examinations after crashes, power failures, or unexpected shutdowns.
- Built a rich-text question editor, approval workflow, and post-exam review system with answer comparison.

• LUME — AI Security & Technical Debt Analysis Platform | *Next.js, TypeScript, Node.js, D3.js, HuggingFace*

- Engineered an AI platform to visualize technical debt, security vulnerabilities, dependency propagation, and repository health.
- Built a **D3.js Codebase Galaxy** with dependency graphs, blast-radius analysis, complexity mapping, and dynamic risk heatmaps.
- Mapped vulnerabilities to **OWASP Top 10** and **CWE**, generating repository security, deployment confidence, and risk metrics.

Awards

- **Winner** — Hackathon, Jadavpur University (2026): Developed **LUME**, an AI-powered security and technical debt analysis platform.
- **Winner** — Hackathon, Technique Polytechnic Institute (2026): Developed **Anveshak**, a multi-agent log intelligence platform.
- **Winner** — Hackathon, MCKVIE (2025): Developed an AI-powered Student Grievance Management Platform.
- **Runner-up** — Hackathon, NSEC (2024): Secured **2nd** position in the Competitive Programming Hackathon.

Technical Skills

Frontend: React.js, Next.js, JavaScript, TypeScript, HTML5, CSS3

Backend: Node.js, Express.js, REST APIs, WebSockets

Databases: MongoDB, PostgreSQL, Prisma ORM

DevOps & Cloud: Docker, GitHub Actions, AWS (EC2, S3)

Tools & Technologies: Redis, Kafka, BullMQ, Git, Linux

Languages: Java, JavaScript, TypeScript, Python

Certifications

- **Build with AI** — Google x GeeksforGeeks
- **Campus Ambassador** — Kshitij, IIT Kharagpur

May 2026

January 2025