ABHINANDAN GHOSH

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EDUCATION

JIS College of Engineering Kalyani,WB
Bachelor of Technology (Information Technology) **August 2024 - Present**

SKILLS SUMMARY

- **Languages**: Python, Java, JavaScript (ES6+), TypeScript, SQL, PHP
- **Frameworks**: React.js, Next.js, FastAPI, Flask, Tailwind CSS
- **AI Technologies**: LLM Integration, RAG, Vector Search, MCP, Tree-sitter, Knowledge Graphs, Agentic AI, AI Coding Agents (Claude Code, Cursor, Codex)
- **Tools**: Git, GitHub, Docker, VS Code, Postman , PostgreSQL (pgvector),Power BI
- **Platforms**: Windows, Vercel, Railway , Supabase
- **Soft Skills**: Problem Solving, Leadership, Team Collaboration, Communication

WORK EXPERIENCE & ACHIEVEMENTS

Full Stack Developer (Part-time) | Coding Club JISCE **May 26 – Present**

- Spearheaded the design and deployment of multiple full-stack web applications, engineering robust digital infrastructure to support the organization's growing operational and technical needs.
- Directed a core team of developers across various product lifecycles, enforcing modern engineering standards through rigorous code reviews and streamlined CI/CD Git workflows.

1st runner-up - JISTECH 2k25

- Developed a smart web platform to help students discover , comapre and mamange neraby mess services efficiently.

1st runner-up - BOT to Agent by MLH 2026

- Built an AI powered thesis defence simulator using RAG , real time voice (Deepgram+Elevenlabs), and browser integrity tracking to grill studenst on their own research.

PROJECTS

AI Thesis Defense Simulator | Link | GitHub **April 26- June 2026**

- Built a RAG pipeline with pgvector and Gemini, achieving zero-hallucination thesis grading and weakness detection.
- Implemented a real-time voice defense engine utilizing Deepgram WebSockets and ElevenLabs for seamless AI interrogation.
- Developed browser-level academic integrity tracking via visibility APIs, successfully reducing unauthorized tab switching by 95%..

Crazy Build Hackathon Platform | Live | GitHub **May 26- July 2026**

- Architected a Next.js and Supabase platform, successfully processing 100% of live traffic for 100+ participants.
- Engineered a real-time Admin Dashboard, reducing manual overhead by 40% through streamlined team check-ins.
- Designed a mobile-responsive UI with Tailwind CSS and Framer Motion, boosting user engagement by 25%.
- Deployed a dynamic project gallery with live uploads, optimizing database queries for instant real-time showcasing.

Semantic Memory Layer for Git | Github **May 26-July 2026**

- Orchestrated the development of a Node.js semantic memory layer for Git, achieving zero-incident deployments by proactively blocking historically reverted code.
- Spearheaded the implementation of a Qdrant and UniXCoder vector pipeline, decreasing recurring bugs by 40% and ensuring long-term codebase stability.
- Demonstrated commitment to risk mitigation by integrating a Neo4j knowledge graph, contributing to real-time blast radius analysis across entire commit histories.

CERTIFICATES

Programming in Java (NPTEL – IIT Kharagpur) | CERTIFICATE **May 2026**

- Achieved Elite certification (88%) in a rigorous 12-week NPTEL program, validating advanced proficiency in Core Java and object-oriented programming principles.
- Mastered key Java concepts including Collections Framework, Exception Handling, Multithreading, File I/O, and Java API utilization for developing robust software solutions.

SQL and Database Management System (EduSkills) | CERTIFICATE **March 2026**

- Completed a 10-week internship covering SQL, relational database design, NoSQL databases, data aggregation, and ETL processes.
- Developed hands-on expertise in integrating databases with Python (FastAPI) and Node.js (Express) applications while building Power BI analytics dashboards.