Shubham Mittal

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Education

Indian Institute of Information Technology, Lucknow — Lucknow, India
Bachelor of Technology in Computer Science and Business; GPA: 9.025 — *Aug. 2024 – Present*

- Relevant Coursework: Data Structures, DBMS, Object-Oriented Programming (OOP), Web Development, Theory of Automata, Data Communication, Computational Thinking.

Agrasain Boys' School — Kolkata, India
Indian School Certificate (Class XII); Percentage: 95% — *Aug. 2023 – Jun. 2024*

Technical Skills

Languages: C++, Java, Python, TypeScript, JavaScript, SQL, Bash
Web & Backend: React, Node.js, Express, Spring Boot, Vite, Zod, TanStack Query, MongoDB
AI & Cloud: Groq (LLaMA-3), OpenAI API, Vercel, Render, Docker, Google OAuth
Tools & Protocols: Git, Chrome Extensions (MV3), NPM Publishing, REST/GraphQL APIs, Picocli

Projects

LeetCode AI: Socratic Interview Simulator | ***TypeScript, React, Node, MongoDB, Groq*** — *Dec,2025*

- Developed a full-stack Chrome extension (Manifest V3) and dashboard, implementing a **cookie-bridge authentication system** for seamless cross-domain session synchronization between browser and web.
- Built an **AI Interview Simulator** orchestrating 60-minute timed assessments, utilizing the LeetCode GraphQL API with **parallelized fetching** via `Promise.all` to reduce latency by **40%**.
- Optimized system reliability by implementing a **sliding-window context manager** and a hyper-strict JSON parser with recursive fallbacks, improving LLM response relevance and preventing UI crashes.
- Engineered a dynamic recommendation engine that parses user submission history to identify weak DSA domains, automatically fetching targeted practice problems to optimize learning curves.

AI-Powered Logging Ecosystem | ***Java, Spring Boot, Groq, NPM, Docker, Picocli*** — *March,2026*

- Architected a high-throughput, thread-safe asynchronous logging engine using the **Producer-Consumer pattern** and **BlockingQueue**, ensuring zero-loss log ingestion across distributed microservices.
- Engineered a real-time AI debugging pipeline utilizing **Java's WatchService** and Groq LLaMA-3, reducing debugging MTTR by **60%** through automated root-cause analysis and streaming fixes.
- Published a production-ready client to **NPM (@shubhammittal/custom-logger-client)**, enabling distributed log aggregation across diverse stacks with a single command: `npm i @shubhammittal/custom-logger-client`.
- Containerized the entire infrastructure using **Docker and Docker Compose**, establishing a centralized Spring Boot dashboard for log aggregation and strict environment parity.

Achievements

CodeChef: 3-Star Rated (Max Rating: 1615); Rank 140 in Starters 170D
Codeforces: Specialist (Max Rating: 1544); Solved 1000+ problems
JEE Main: 99.06 Percentile (Top 1% out of 1.5M+ candidates)
SpeedForces (IIIT Lucknow): Secured **2nd position** in institute-level competitive coding marathon
Hackofiesta (IIIT Lucknow): Best Idea winner at Hackofiesta 6.1

Positions of Responsibility

Member, CP Wing *(Technical Club – Axios, IIITL)* — Lucknow, India
Active Member — *Oct. 2024 – Present*

- Conducted workshops on Data Structures and Algorithms, mentoring juniors to enhance problem-solving skills and increase participation in global coding contests.

Member, Seraphim *(Social Awareness Club, IIITL)* — Lucknow, India
Active Member — *Oct. 2024 – Present*

- Coordinated social welfare initiatives and charity drives, organizing community events to promote social awareness and civic engagement.