

Daivik Awasthi

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SUMMARY

Final-year B.Tech IT student with a strong DSA base, backend and cloud engineering experience from a Goldman Sachs internship, and personal projects in backend systems and applied ML. Seeking SDE roles.

EDUCATION

Netaji Subhas University of Technology

Delhi, India

Bachelor of Technology in Information Technology

Aug. 2023 – Expected May 2027

- **GPA:** 8.85/10.00, ranked among the **top 5 in the IT department**
- **Relevant Coursework:** Data Structures and Algorithms, Object-Oriented Programming, Database Management Systems, Operating Systems, Computer Networks, Machine Learning

WORK EXPERIENCE

Goldman Sachs

Bengaluru, India

Software Engineering Intern

May 2026 – July 2026

- Built a self-service developer platform using **React**, **TypeScript**, and **Go** on **AWS ECS Fargate**, replacing CLI-only workflows for **9,000+ developers** and reducing a common operation from about a minute to ~2 seconds (estimated).
- Developed asynchronous job processing using **SQS FIFO** and **EventBridge**, adding batch operations and status tracking and automating a previously manual workflow step.
- Designed a **DynamoDB** history table with TTL for an admin dashboard and implemented **RBAC** on **OIDC**-authenticated APIs, passing a security review.
- Wrote unit and integration tests (**87%** backend coverage) and deployed to QA via **GitLab CI/CD** with security scans.
- Debugged and resolved a QA service failure caused by an upstream tool update, and extended its schema.

PROJECTS

AI Grammar & RAG Writing Platform [\[GitHub\]](#) | *Next.js, TypeScript, Upstash Vector, Groq*

Mar 2025 – Present

- Created and deployed a full-stack AI writing assistant with real-time grammar, tone, and translation features.
- Engineered a **RAG** (retrieval-augmented generation) pipeline with local embeddings and Redis caching that enforces user-defined style rules on every suggestion, evaluated on the CoNLL-2014 benchmark (**0.70 GLEU**).

Automated Software Maintainability Prediction [\[GitHub\]](#) | *Python, PyTorch, Optuna, FastAPI*

Apr 2026 – Present

- Developed a hybrid **Genetic Algorithm + Neural Network** machine learning pipeline that predicts bug-prone files from 19 Git-mined structural, textual, and evolutionary metrics, evaluated on **1,050 files** across Flask, Requests, and FastAPI.
- Cut the feature set by **55.6%** (8 of 18) on FastAPI while lowering validation MSE by **17.4%** over the all-features baseline (Wilcoxon signed-rank test).

Order Book & Matching Engine [\[GitHub\]](#) | *C++17, CMake*

July 2026 – Present

- Implemented a deterministic C++17 order book with order sweeping, partial fills, and cancellation by ID.
- Validated with unit tests and benchmarked on **500,000** synthetic orders at roughly **139,000 orders per second**.

TECHNICAL SKILLS

Languages & Databases: C++, Python, Go, TypeScript, JavaScript, SQL, MongoDB, MySQL, DynamoDB, Redis

Web Development: React.js, Next.js, Node.js/Express.js, REST APIs, Tailwind CSS

Cloud & DevOps: AWS (ECS Fargate, DynamoDB, SQS, S3, EventBridge), Docker, CI/CD, GitLab CI, Linux

Tools: Git, GitHub, GitLab, Postman

Machine Learning: TensorFlow, PyTorch, scikit-learn, Pandas, NumPy, RAG, Vector Databases

Core Concepts: Event-Driven Architecture, Unit and Integration Testing, RBAC, OIDC

ACHIEVEMENTS AND HONORS

- Solved **850+ problems** (270 medium, 69 hard) across LeetCode, CodeChef, Codeforces, AtCoder, and GeeksforGeeks.
- **50+ LeetCode contests (max rating 1692)**; ranked **1,572 of 31,773** (top 5%) in Weekly Contest 463.
- Selected as a **Reliance Foundation Scholar** from over 100,000 applicants.

POSITIONS OF RESPONSIBILITY

180 Degrees Consulting NSUT (*global student consulting network*) | *President*

Sept 2025 – Present

- Led **60 consultants** (44 junior, 16 senior) on projects for **10 startups and NGOs**, managing outreach and delivery.

Finance and Economics Society, NSUT | *Vice President*

Aug 2025 – Present

- Led the organization of **15+** finance events and workshops, driving sponsorship and outreach.

EXTRACURRICULAR ACTIVITIES

- **Honorable Mention** in Strategy Showdown (**E-Cell, IIT Roorkee**)
- **4th place** in Zerodha Varsity **Finance Quiz**.
- Completed **140+ hours** of community service with **NSS NSUT**.