

GOPAL GUPTA

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Education

Delhi Technological University

Bachelor of Technology in Software Engineering

Dec. 2021 – May 2025

GPA: 8.91/10.00

Experience

Samsung Research Institute - Noida

Software Engineer

June. 2025 – Present

Noida, Uttar Pradesh

- Working on the **Samsung Health app's Mindfulness Tracker** within the Android front-end team, optimizing UI performance and maintainability.
- Reduced tile loading time by **~85.7% (140 ms → 20 ms)** using summary data caching via **DB Observers**, and resolved hundreds of UI issues across devices.
- Migrating legacy **MVP components to MVVM** and supporting the major version transition of Samsung Health for improved scalability and compatibility.

Samsung Research Institute - Noida

Software Engineering Intern

Jan. 2025 – June. 2025

Noida, Uttar Pradesh

- Contributed to the **Sleep Tracker** module of the **Samsung Health Android app**, enhancing the **“Bedtime Guidance”** feature and improving UI responsiveness across devices.
- Refactored and optimized **30+ UI features** for the Samsung Health app and wearables (Galaxy Watch, Samsung Ring, manual inputs), enhancing performance, data integration, and design compliance for a smoother user experience.

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Software Development Engineer Intern

May 2024 – July 2024

Gurugram, Haryana

- Revamped a legacy system in **Node.js** to monitor data pipelines more effectively.
- Designed **scalable JSON data formats** and improved backend **CRUD functionality**, ensuring data integrity and robust failure handling.
- Built the system to **handle hundreds of concurrent requests**, ensuring reliable performance under load.
- Utilized **MongoDB** for efficient data storage and retrieval, conducting comprehensive testing to maintain system reliability and performance.

Projects

Developer Matchmaking Platform | *MERN Stack*

- Built a Tinder-like platform for developers to connect and collaborate, enabling connection requests, accept/reject actions, and project/hackathon matchmaking.
- Implemented full CRUD operations with authentication, MongoDB integration, and responsive UI using React and Tailwind CSS.

Twit | *Java*

- Developed a minimal Git implementation handling repository creation, commits, and object storage with SHA-1 hashing and custom data structures.
- Implemented core Git commands and file tracking to understand version control internals at a system level.

Product Recommendation System | *Python, Keras*

- Built a personalized recommendation engine using four retrieval models combining content and collaborative filtering.
- Generated embeddings from text, images, and metadata (H&M dataset) and deployed results via a Streamlit demo app.

Technical Skills

Languages: C++, C, JavaScript, Java, Kotlin, Python, SQL

Backend Development: Node.js, Express.js, REST APIs, MongoDB, JWT Authentication, Database Design

Frontend and Mobile: React, HTML, CSS, Android (MVVM, MVP, XML, Android Studio)

Tools & Technologies: Git, Postman, Firebase, VS Code, Gradle

Relevant Coursework: Data Structures and Algorithms, Object Oriented Programming, Database Management Systems, Operating Systems, Software Engineering

Extracurricular

- Competitive Programming Enthusiast:** Knight at Leetcode, 3 Stars at Codechef, Specialist at Codeforces
- Finalist in TechGig Code Gladiators 2024, among over **50,000+** participants.
- Worked remotely as a **part-time AI trainer**, reviewing and generating hundreds of prompt-response pairs in domains like logical reasoning, critical thinking, SQL, and C++ using RLHF.