

EMPLOYMENT

Software Development Engineer 2 **Samsung SDS** **Feb 2025 - Present**

- Engineered backend services in **Python** and **JavaScript**, optimizing computation-intensive supply chain algorithms and achieving **60% faster runtime**.
- Designed and deployed **scalable microservices on AWS** with **Docker**, ensuring horizontal scalability and high fault tolerance.
- Built and optimized **API rate limiting, retries, and circuit breaker patterns**, increasing service reliability under peak traffic.
- Partnered with solution architects to create **low-latency data pipelines** enabling real-time analytics at enterprise scale.
- Authored internal **backend development guidelines** improving code review efficiency and onboarding speed for new engineers.

Software Development Engineer **Samsung SDS** **May 2022 - Feb 2025**

- Designed and developed **REST APIs** supporting global factory operations across **300+ sites**, ensuring **99.9% uptime**.
- Implemented **distributed system patterns** (event-driven design, async queues) to handle **millions of daily transactions**.
- Improved API throughput by **40%** using **memoization, batching, and async workers**.
- Collaborated with DevOps to automate backend deployments with **GitHub Actions**, shrinking release cycles by **35%**.
- Hardened backend systems against threats by implementing **JWT authentication, input sanitization, and role-based access control**.
- Mentored peers on **data structures and algorithms for backend problem-solving**, raising overall team code quality.
- Won **2x Excellence Awards** for delivering backend features ahead of deadlines with measurable business impact.

Full Stack Developer **Leaf Craft** **Sept 2021 - May 2022**

- Developed **GraphQL APIs with MongoDB backend**, processing **10K+ orders/day** at **sub-200ms latency**.
- Designed caching layers with **Redis**, cutting repetitive query execution time by **30%**.
- Created backend modules for analytics and reporting, enabling stakeholders to track KPIs in real time
- Partnered with product managers to design **scalable backend roadmaps**, aligning engineering output with business goals.
- Mentored junior engineers on backend best practices including **API versioning, query optimization, and logging**.
- Acted as **on-call backend engineer**, debugging production incidents and ensuring SLA compliance.

Languages and Technologies

- **Languages:** Java, Python, JavaScript (ES6+), C++
- **Backend & APIs:** Node.js, Express.js, GraphQL, REST APIs, Microservices
- **Databases:** MySQL, MongoDB, Firebase, IBPL
- **DevOps & Cloud:** AWS, Docker, GitHub Actions, CI/CD pipelines
- **System Design:** Distributed systems, low-latency services, HLD/LLD

EDUCATION

Jammu, India **Indian Institute of Technology Jammu** **Oct 2021**

- B.Tech. in Computer Science and Engineering.
- Main coursework: Data Structures, Design and analysis of Algorithms, Computer Architecture, Artificial Intelligence, Database Systems, Operating Systems, Software Engineering.

PROJECT

- [Advance-Node.js](#) – Advanced backend project demonstrating API design, middleware, and scalability.
- [RestAPIs](#) – RESTful API implementation with routing, endpoints, and server-side logic.
- [GoLang-Course](#) – Backend learning project in Go covering concurrency, error handling, and service design.
- [AlgorithmProblemSolving](#) – Collection of algorithm solutions in C++ showcasing data structures and optimization.
- [Web-Development](#) – Web applications built with HTML, CSS, and JavaScript for client-server interaction.

ACHIEVEMENTS AND RESPONSIBILITIES

- **Excellence Award (2x)** – Samsung SDS for outstanding performance.
- **IIT-JEE AIR 1111** (Top 0.4% among 500K+ candidates).
- Developed ReactJS SPAs that reduced debugging time by 15%.