

SENIOR SOFTWARE ENGINEER – BACKEND / INFRASTRUCTURE

Senior Software Developer with 5+ years of backend development and infrastructure modernization expertise. Adept at architecting scalable, high-performance solutions, collaborating with cross-functional teams, and driving efficiency through automation. Skilled in Java, Spring, Node.js, GraphQL, C++, Python, and SQL databases with an in-depth understanding of data structures, algorithms, and cloud infrastructure.

Solved 500+ problems on LeetCode, demonstrating strong problem-solving skills and deep DSA proficiency. Passionate about building robust, scalable, and efficient backend systems, ensuring reliability, security, and performance optimization.

Technical Skills: Java ▪ Spring ▪ Node.js ▪ GraphQL ▪ C++ ▪ Reactjs ▪ JavaScript ▪ Data Structures & Algorithms ▪ Python ▪ CSS/HTML ▪ MySQL ▪ Postgres

Functional Skills: Software Development Lifecycle | Backend Development | IT Infrastructure Project Handling | Technical Analysis | Team Leadership | Application Architecture | Client Relationship Management | Troubleshooting

WORK EXPERIENCE

Caastle, Delhi

Apr 2023 – Feb 2025

SENIOR SOFTWARE ENGINEER – INFRASTRUCTURE

- Collaborated with Architects to strategize solutions, conducted PoCs, and led development efforts while coordinating infrastructure upgrade activities with cross-functional teams.
- Executed seamless S3 bucket migration, orchestrating careful planning, library updates, and team coordination to transfer 10TB+ of data with zero downtime.
- Engineered a Credential Verifier, automating the credential testing process and significantly reducing execution time during credential rollover activities.
- Designed and implemented Java-GraphQL presentation layer, effectively replacing the existing Node.js layer to achieve faster development, enhanced performance, and improved data representation.

- ✓ **Successfully migrated 10TB+ data** from deprecated S3 buckets with zero impact on current infrastructure by upgrading the Java library and developing new libraries in Node and Python.
- ✓ **Implemented GraphQL integration**, increasing performance and handling 400+ concurrent users; reduced development time due to more modular and structured coding practices.
- ✓ **Streamlined annual credential rollover process** by implementing a robust automated testing system, resulting in zero manual testing efforts and freeing up teams for other important tasks.
- ✓ **Implemented a secure script server system** resulting in reduced production box access, restricted script visibility, and improved security with VPN and official email access, achieving enhanced protection for sensitive data.

Leverage Edu, Noida

Nov 2021 – Apr 2023

FULL STACK DEVELOPER

- Established end-to-end LOAN section for leverage, enabling seamless lead tracking and enhancing team efficiency.
- Optimized system performance by integrating Redis and AWS services such as Lambda, EventBridge, and SQS, significantly reducing server load.
- Accelerated API response times by refining SQL queries, minimizing fetch time, and improving overall system efficiency.
- Developed backend for FLYBANK App, designed to cater to students abroad, ensuring robust and scalable architecture.

- ✓ **Revolutionized lead management and increased team efficiency** by developing a full-stack loan web app, resulting in evenly distributed leads to POCs and managing 10-20 active leads per employee.

- ✓ **Revamped API response time by 97%** and increased employee efficiency by implementing Redis caching, AWS services, and optimized SQL queries, resulting in faster data processing and improved student portal experience.

Tata Consultancy Services, Bengaluru

Aug 2019 – Nov 2021

SYSTEM ENGINEER

- Engineered AML (Anti-Money Laundering) and Fraud Detection module for TCS BANCS Compliance Project.
- Improved Real-Time Fraud Detection System, increased TPS from 11 to 150, resulting in solid user protection and increased contracts with other banks.
- Designed and implemented a Real-Time Fraud Detection Monitoring System, conducting multiple Proof of Concepts (PoCs) and benchmarking.

EDUCATION & TRAINING

B.Tech. - Electronics and Communication Engineering, National Institute of Technology, Silchar, 2019

MERN Fullstack Development Course, Geeks for Geeks live classroom course

The Complete 2021 Web Development BootCamp, Udemy

Interview Preparation in C++, Coding Ninjas

Applied AI Machine Learning Online Course

NCC ' B ' Certificate

NCC ' C ' Certificate

CODING PROFILES

LeetCode (leetcode.com/shivt828)

InterviewBit (interviewbit.com/profile/shivam-tiwari_882)

HackerRank (hackerrank.com/ShivT)

GitHub ([http://www.github.com/ShivamHere](https://www.github.com/ShivamHere))