

Saurabh Patel

✉ patel99saurabh@gmail.com | 📞 +917607051261 | [Github](#) | [Linkedin](#)

About

Lead Software Engineer with 5 years of hands-on experience in designing, developing, and optimizing scalable software solutions. Proficient in C++, Java, Spring Boot, Kafka, and cloud platforms such as AWS. Experienced in enhancing system performance, automating processes, and providing production-grade features.

Work Experience

Samsung R&D Institute, Bengaluru

Lead Software Engineer (SDE2)

Mar 2025 - Present

- Developed real-time monitoring and alerting mechanisms (part of Configuration Management Service), enabling dynamic issue detection and resolution, which led to a 20% reduction in network downtime.
- Enhanced the existing audit service, leading to a 35% reduction in message processing time, significantly boosting system performance and efficiency using Kafka.
- Led the migration of data from version n-1 to version n, developing a DSIM Migration Tool on top of the existing Data Migration Simulation framework. This tool automated 80% of the manual processes, significantly reducing manual intervention and improving overall efficiency.
- Designed and implemented data validation rules to ensure only accurate data reaches hardware, preventing potential hardware failures.
- Java, C/C++, Spring Boot, SQL, Kafka, PostgreSQL, Cassandra, Kubernetes, Docker, AWS.

Senior/Software Engineer(SDE1)

June 2021 - Feb 2025

- Designed and built features for the Configuration Management Block to optimize system configurations, resulting in a 20% improvement in processing efficiency.
- Leveraged Java and C++ for development and utilized Kafka for real-time data streaming with NMS and PLD/YANG for robust database management, enhancing system scalability and reliability.
- Collaborated with cross-functional teams to integrate new features, leading to a 15% reduction in configuration errors and improving overall system stability.
- Refactored code to remove duplication, improving the Duplicate Code (DC) score by 60% (from 2.5 to 4) and the Software Architecture Maturity (SAM) score by 14% (from 3.5 to 4) through the rewriting of classes in C++.
- Java, C/C++, Spring Boot, SQL, ConFD, Kafka, PostgreSQL, Cassandra, Docker, Kubernetes, GDB, GTest, AWS.

Education

NIT Delhi

Aug 2017 - Jun 2021

B.Tech. in Computer Science and Engineering

CGPA: 7.19/10

Relevant Coursework: Data Structure and Algorithms, Object Oriented Programming, Design Patterns, Low and High Level Design, Database Management System (DBMS), Computer Networks, Operating Systems

Skills

Languages: Java, C/C++

Web: HTML, CSS, JavaScript, Bootstrap, Spring Boot

Databases: SQL, PostgreSQL, Cassandra, MongoDB, PLD, YANG

Tools and Technologies: Git, GitHub, Postman, Maven, VSCode, IntelliJ, Perforce, P4V

Platforms: Linux, AWS, EC2, S3, Kubernetes, Docker, Kafka

Project Work

- **Bengali.AI Handwritten grapheme classification (2019):** Developed a model to predict Grapheme Roots, Vowel Diacritics, and Consonant Diacritics from 137x236 grayscale images. Implemented a CNN (Convolutional Neural Network) using Python, Keras, Numpy, and Pandas, achieving 87% accuracy in multilabel image classification. [Link](#)

Awards and Certificates

- **Problem Solving:** Solved 400+ questions related to DSA across coding platforms
- **Professional:** Received the **Samsung Excellence Award** in the "Development to Market" category in Q1 2023
- **Academic:** Achieved 99 percentile in the JEE Main 2017 entrance exam among 1.5 million candidates.