

# Siddhant Singh

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## SKILLS

**Languages & Frameworks:** Java, JavaScript, HTML, CSS, ReactJS, NodeJS, Python, Spring, Spring Boot, Hibernate, Apache Spark, Apache Flink, Apache Kafka, Apache Storm, Apache Airflow, DBT, JUnit, System Design patterns, Data Structures algorithms, Object-oriented, SOLID, CAP, AWS, GitLab, Azure, GCP, Cloud.

**Tools:** GIT, MySQL, NoSQL, Jira, Docker, Kubernetes, Splunk, Postman, Grafana, CI/CD, Confluence, Oracle SQL Developer, IntelliJ, Eclipse, Fortify, Microsoft Azure, Pivotal Cloud Foundry, Maven.

## WORK EXPERIENCE

Fiserv, Noida

Jun 2022 - Present

### Software Engineer - 2

- **Resolved 80+** user stories and **35 complex technical defects**, resulting in **enhanced application functionality**, **increased security**, and **improving service reliability by 40%** and **reducing user-reported issues by 60%**.
- **Designed scalable** data streaming workflows integrating **Apache Kafka** with **Apache Flink** and **Spark**, improving the **reliability of settlement reporting systems by 40%** and eliminating data **inconsistencies** across **distributed ledgers**.
- **Collaborated** in an **Agile** environment to **migrate** production services from **Java 8 to Java 21**, leveraging **virtual threads** and **Spring reactive stacks** to improve application **response time by 15%**.
- **Engineered** highly scalable **back-end microservices using Spring Boot**, accelerating transaction dispute processing to under **2 seconds** and elevating overall **system efficiency scores by 35%**.
- **Architected HLD** for event-driven microservices processing **10M+ daily transactions** and applied **LLD (SOLID, Design Patterns)** to optimize **resource efficiency by 30%** for 15+ toolkit clients.
- **Revamped the front-end** by converting legacy **HTML, CSS, and JavaScript** into a **React.js and Typescript** application, using **Node.js** tools for an **optimized build process** and achieving a **40% performance gain**.
- **Architected and built 15 new**, scalable services from the ground up with **Spring Boot** to serve a new tier of toolkit clients.
- **Achieved 90% code coverage** by implementing robust unit tests with **JUnit**, **enhancing** overall application **reliability**.
- **Strengthened** application **security pipelines** by **integrating Fortify scans** into **GitLab workflow**, proactively **resolving critical vulnerabilities** and **reducing security risks by 75%**.
- **Deployed and Managed** scalable **microservices on AWS** using **EC2, S3, Lambda, RDS, and CloudWatch**, with **automated CI/CD pipelines** to enable seamless **integration, testing, and deployment**.
- **Audited** the application requirements alongside stakeholders, **preventing 25+ critical requirement gaps** that could lead to **significant settlement issues**, and **accelerated** project delivery.
- **Engineered high-throughput data processing** pipelines using **Apache Spark** and **Apache Flink**, **orchestrated via Apache Airflow** and **DBT**, to enable **real-time analytics** and **reporting** for the **Dispute Expert Toolkit Clients**.
- **Led the end-to-end development** of **5 new features**, from design to deployment, **enhancing application stability** and earning **recognition as Team's Best Performer for 2024-25**.

## EDUCATION

- **Vellore Institute of Technology**  
– *B.Tech in Computer Science and Engineering.*

**Bhopal, India.**  
*Jun 2018 - May 2022.*

## PROJECT WORK

- **Paddy Disease Detection System:** Forged an **Android application** using **Java, XML, Firebase, YOLOv10** and **Tensorflow Lite** that identified **3 common paddy diseases** with **95% accuracy**, providing farmers with **real-time** treatment recommendations.
- **Detox:** Constructed a **smart city waste management** application using **Java** for **Android**, featuring a **YOLOv10** model for **real-time garbage detection** and reporting, which automated cleanup dispatch via a **Firebase** backend and a **ReactJS** admin dashboard.

## LEADERSHIP AND ACTIVITIES

- **Secured 1st place** among **500+ participants** in Fiserv's **Secure Code Warrior** competition, **validating advanced expertise in secure coding practices**.
- **Led a 10-member Android team** at **Google Developer Student Club**, driving innovative app development and conducting technical workshops.