Srusti Samprada Pradhan

📞 +91 7735314003 || ✉ 01srusti05@gmail.com || in [srustisp](#) || 🧩 [leetcode](#) || 📁 [srustiportfolio](#)

Technical Skills

Programming Languages: Java, JavaScript
Frameworks: Spring, Spring Boot, Hibernate, Node.js
Databases: MySQL, PostgreSQL, MongoDB
Others: AWS, HTML, CSS, Java Swing, AWT, Agile, Thymeleaf

IDEs: Eclipse, Apache NetBeans, STS, VS Code
Tools: GitHub, Gitlab, Postman

Work Experience

Tummoc (Software Engineer)   Jan 2023 - Present

Automated Fare Collection System(AFCS)   **Jan 2025 - Present**

- Developed and exposed **REST API**s to external clients for secure data transmission, ensuring strict adherence to required data formats and reducing unnecessary data duplication and key mismatches by 95%.
- Implemented **AES encryption** and **decryption** using **PBKDF2WithHmacSHA1** and **Base64** to secure API communication and protect sensitive data.
- Prevented **SQL injection** through input validation and **parameterized queries**, enhancing system security.
- Consumed client APIs and used **batch updates** to insert transactional data into **MySQL**, optimizing performance.
- Designed and implemented resilient, non-blocking operations with **automatic retry logic** and **transactional** integrity, ensuring reliable execution and data consistency in asynchronous workflows.

Intelligent Transport Management System (ITMS)   **Oct 2023 – Jan 2025**

- Developed a centralized **Spring Boot microservices** application for STUs, improving operational efficiency by **20%** and streamlining multi-system management.
- Created a comprehensive **API** to automatically set permissions and roles by scanning application controllers, reducing manual configuration time by 80%. This ensured accurate role-based access across 50+ modules and simplified permission management with a single URL trigger.
- Leveraged **REST controllers** and **AJAX** to enable dynamic data updates, reducing page reloads by 100% and improving processing time by 50%, significantly enhancing user experience and efficiency
- Managed authentication and authorization for different accounts. Developed custom annotations for role-based permissions, ensuring secure module access according to user roles and maintaining system integrity, reducing unauthorized access attempts by 90%.
- Implemented **Prometheus** monitoring to track application performance, resource usage, and custom metrics, enhancing system observability and reliability.

Intelligent Depot Management System (IDMS)   **Jan 2023 – Sept 2023**

- Developed a dual-application system: a **Java Desktop Application** for localized sub-organizational functions (15% efficiency boost) and a Web Application for organization-wide operations (20% efficiency gain).
- Enhanced offline functionality with a desktop app, reducing internet dependency by 90% and boosting offline efficiency.
- Migrated data storage from JSON files to **MongoDB**, optimizing data management and reducing complexities in data handling.

Projects

CRM- [CRMAPP](#)

- CRM is a marketing software that manages your relationship with the customer. This software ensures that every step of the interaction with customers goes smoothly and efficiently to increase the overall profit.
- It Actively tracks and manages custom information. Actively tracked and managed custom information, including Leads, Clients, Proposals, ensuring a streamlined customer relationship management process.

Education

Gandhi Institute For Technology (BPUT)
B.Tech , Computer Science - June 2022
Overall SGPA: 8.9

Jupiter +2 Science College (CHSE)
Higher Secondary - April 2018
Overall Grade: 81%

Certifications [AWS Technical Essential](#) [Software Development](#)