

Saurabh Jha

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EXPERIENCE

Standard Chartered Bank GBS

July 2021-Present

Senior Software Engineer

- Promoted to **Senior Software Engineer** for leading the migration of SPM module to the open-source platform and delivering critical backend solutions under tight deadlines.
- Led the migration of the Security Patch Management (SPM) module from PEGA(a low code tool based on JAVA) to a new open-source tech stack (**Quarkus, GraphQL, Lit Web Components**), focusing on both backend and frontend redesign with performance improvements
- Developed **30+ REST APIs** using Jakarta REST standards in **Quarkus** and optimized data access through Hasura GraphQL; **improved page load times by 3x for large-scale (TB) data tables.**
- Rebuilt and optimized critical bulk import and bulk download features, **reducing processing time from 10–15 minutes for 10k records to under 3 minutes for 150k–200k records** by introducing dedicated microservices.
- **Built fine-grained authentication and authorization** across frontend and backend by integrating **OpenFGA models** with Keycloak-based staff and system realms, and configuring **sidecar proxies for secure access control of API and GraphQL microservices.**
- Rewrote **7+ independent batch jobs** using **Quarkus JBeret** (Jakarta Batch API), **developed a scalable job monitoring framework**, and **mentored 4+ new developers** during the migration project.

Software Engineer

- Led the development of a resilient **batch processing system** for daily delta data synchronization with ServiceNow System using REST API, **ensuring zero data loss across failures.**
- Designed and implemented a Superseded Workflow creating a **Directed Acyclic Graph structure to automate patch updates** across related cases which reduces users' effort in manually updating those patch information.
- Built End-to-End OLA Enhancements, expanding operational tracking across 6+ workflow stages, **crucial for regulatory metrics.**
- Collaborated across cross-functional teams to deliver backend enhancements for **15+ BAU releases and 6+ major releases**, consistently meeting strict SLAs and audit commitments.
- In the initial training period, developed a prototype of full-stack *Payment Initiation* application supporting corporate banking operations using **ReactJS, Spring Boot, PostgreSQL, REST APIs**; designed backend architecture and database schema.

EDUCATION

B. Tech in Electronics and Communication Engineering

May 2021

National Institute of Technology, Nagpur, India

9.09 GPA

SKILLS

Languages: Java, C/C++, JavaScript

Frontend: Lit Framework, HTML, Tailwind CSS

Backend: Microservices Architecture, REST APIs, Spring Boot, GraphQL, Quarkus, Quarkus Batch Processing, Hibernate.

Databases: Oracle-SQL, MySQL, PostgreSQL

Cloud Technologies: Kubernetes, Docker, Amazon Web Service (AWS) - EC2, RDS, SQS, SNS, Route 53, S3

Tools: Maven, Azure DevOps, Git

Authorization: OpenFGA

Proficient in **Algorithms and Data Structures**

ACHIEVEMENTS

- Among the top 3.2% of LeetCode users, with the highest contest rating of 1961. [LeetCode](#)
- Specialist on Codeforces with highest rating of 1420. [Codeforces](#)
- Academic Excellence Prize for securing 2nd position in the order of merit in the B.Tech ECE programme concluded in 2021
- Global Rank 62 in CodeChef contest Starters'20.

PUBLICATIONS

Computer Aided Segmentation of Polyps using Mask R-CNN

- Saurabh Jha, Balaji Jagtap, Dr. Srijan Mazumdar, and Dr. Saugata Sinha - "Computer aided segmentation of polyps using Mask R-CNN and approach to reduce false positives" IN: 9th International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA 2021) [SPRINGER PAPER](#)