

## Professional Summary

**Java Specialist and Full stack Engineer** with **4+** years of experience in architecting high-performance, scalable systems. Focused on code quality, performance, security, and system scalability. Proven track record of optimizing enterprise applications.

## Technical Skills

|                                     |                                                                                                        |
|-------------------------------------|--------------------------------------------------------------------------------------------------------|
| <b>Languages:</b>                   | Java, JavaScript, Typescript, SQL, HTML, CSS                                                           |
| <b>Frameworks &amp; Libraries:</b>  | Spring Boot, Spring Security, Spring Cloud, Hibernate/JPA, React.js, Tailwind CSS                      |
| <b>Databases &amp; Caching:</b>     | MySQL, PostgreSQL, MongoDB, Redis                                                                      |
| <b>DevOps &amp; Cloud:</b>          | Kubernetes, Docker, Jenkins, AWS (S3, SQS, Cognito), Kibana                                            |
| <b>Tools &amp; Methodologies:</b>   | Git, Maven, Postman, GitHub Copilot, Gen AI, Stibo STEP                                                |
| <b>Architecture &amp; Concepts:</b> | Microservices, RESTful APIs, System Design, Data Structures & Algorithms (DSA), Design Patterns, Kafka |

## Professional Experience

**Infosys - Specialist Programmer** | Chandigarh, India | March 2022 - Present

### • Product Information Management (Implementation)

- Led a team of 3 members to implement Spring Boot microservice for inbound product data integration to ingest data from external systems into the **Stibo STEP** Product Information Management (PIM) platform.
- Led implementation of outbound product data integration, delivering a **Spring Boot microservice** to expose PIM data to **React-based** frontend applications and downstream product feed services via REST APIs.
- **Technologies Used:** Spring Boot, Kafka, SQS, S3, React, Stibo STEP

### • B2B Data Syndication (Implementation)

- Implemented a Spring Boot product syndication service to synchronize high-volume catalogs and image assets with **Amazon Vendor Central APIs** for a global, top-tier apparel brand. Built React-based UI pages to trigger and monitor API workflows, with scheduled feed tracking and automated audit reporting to ensure 100% data fidelity across platforms
- Implemented data-processing engine using **multi-threaded** parallel processing and **caching mechanisms** for preparing large CSV datasets with hundreds of thousands of records ensuring fast processing time and low memory utilization.
- Implemented an efficient, high-performance multi-pattern string search engine using the **Aho-Corasick algorithm**, capable of performing VLOOKUP-style matching across **millions of records** in large-scale datasets.
- **Technologies Used:** Spring Boot, React, MongoDB, S3, Multi Threading, Rest APIs, AWS Lambda, AWS Cognito

### • PLM Application (Feature Implementation)

- Implemented mission critical features for an enterprise Product Lifecycle Management (PLM) application using **Spring Boot and React**. Developed **RESTful APIs** and integrated them with the React frontend to deliver end-to-end functionality for internal users.
- **Technologies used:** Spring boot, React, PostgreSQL

### • Enterprise Business Application (Support & Enhancement)

- Worked on enterprise business applications using Java, **Spring Boot**, and **React**, implementing new features using **RESTful APIs** for user-facing functionality. Optimized existing application workflows and data processing to improve performance, reliability, and operational efficiency.
- Overhauled a financial reconciliation batch application generating weekly expense-vs-budget reports. Reduced execution time by **90%** by cutting a 5 hour cron-job to 30 minutes. Achieved this by replacing linear search patterns with **binary search algorithms** achieving logarithmic runtime complexity for large-scale datasets.

## Personal Projects

---

- **Multithreaded Web Crawler | Java** | <https://github.com/szdk/Java-Web-Crawler>
  - Developed a **multithreaded** Java web crawler using **Breadth-First Search** to systematically traverse and crawl web pages.
  - Implemented user-defined regular expression pattern matching to search and extract relevant content from crawled pages.
  - Utilized **Java File I/O streams** for efficient storage and processing of crawled web content, with concurrent processing to improve crawling throughput
- **PHP Reference Bot (Telegram Integration)** | <https://t.me/phpRefBot>
  - Developed a high-availability Telegram bot for the developer community, enabling **real-time, inline lookups** of the PHP function documentation. Enhanced search performance to ensure sub-second response times for thousands of function signatures, improving developer workflow efficiency.
  - Implemented **Webhook-based** architecture and custom parsing logic to deliver rich, formatted technical documentation directly within the chat interface.

## Achievements

---

- **LeetCode Guardian:** Ranked among the top 1% of competitive programmers globally with a **2155 contest rating**, solving **1,000+** Data Structures and Algorithms problems.
- **Infosys Insta Award (Three-time recipient):** Awarded for exceptional technical contribution and high-velocity delivery of mission-critical system features.

## Education

---

### Bachelor of Technology (B.Tech) - Mechanical Engineering (2020)

Maharshi Dayanand University, Rohtak, Haryana, India

## Certifications

---

- **Infosys Certified:** Java Developer, Spring Boot Developer, React Developer, Javascript Developer