

# Sajid Khan

Specialist Programmer, Infosys

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## Professional Summary

**Java Specialist and Backend 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: reduced processing time by 71%, cut memory usage by 50%, and accelerated financial reconciliation by 90%.

## Technical Skills

**Languages:** Java, JavaScript, SQL

**Frameworks:** Spring Boot, Spring Security, Spring Cloud, Hibernate/JPA, React.js (fundamentals)

**Databases:** MySQL, PostgreSQL, MongoDB

**DevOps & Tools:** Docker, Jenkins, Git, Maven, Postman

**Architecture & Concepts:** Microservices, RESTful APIs, System Design, Data Structures & Algorithms, Design Patterns

## Professional Experience

**Infosys - Specialist Programmer L1** | Chandigarh, India (Hybrid) | July 2025 - Present

- Refactored the core data-processing engine using **multi-threaded** parallel processing and **caching** mechanisms; replaced high-overhead HashMaps with **primitive arrays** for large CSV datasets, slashing execution time from 60 minutes to 17 minutes (**71% reduction**) and peak memory from 8 GB to 4 GB (**50% reduction**).
- Designed an automated product syndication pipeline to synchronize high-volume catalogs and image assets with **Amazon Vendor Central APIs** for a global, **top-tier apparel brand**. Engineered a robust ETL workflow with scheduled feed tracking and automated audit reporting to ensure 100% data fidelity across platforms.
- Optimized a core multi-pattern string search feature (VLOOKUP-style) by replacing naive search logic with the **Aho-Corasick algorithm**, resulting in a **50x increase** in throughput for large-scale datasets.
- Led development** of **4 mission-critical features** under a tight 3-month timeline, meeting client requirements and earning positive stakeholder feedback.

**Infosys - Senior System Engineer** | Chandigarh, India (Hybrid) | March 2022 - July 2025

- 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.
- Designed a **large-scale data transformation pipeline** to facilitate the migration of users from a third-party platform to an in-house proprietary feature
- Analysed and **resolved a long-standing critical** production defect that had persisted through multiple development cycles; performed deep-dive root cause analysis to implement a permanent fix within weeks of joining the project.

## Personal Projects

**PHP Reference Bot (Telegram Integration)** | <https://t.me/phpRefBot> | *PHP, Telegram Bot API, Webhooks*

- 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.

**OpenUI5 Standalone POS System** | <https://szdk.github.io/ui5pos>

- Developed a fully functional, responsive, browser-based standalone Point of Sale (PoS) application using the SAP UI5 framework. The project is open-source and publicly accessible via GitHub, with a live demo hosted on GitHub Pages.

## Awards and Honors

- LeetCode Guardian:** Ranked in the Top 1.5% of global competitive programmers; solved 900+ data structures and algorithms problems.
- Infosys Insta Award (Two-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