

# Mohamed Sathak S

## Software Development Engineer

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Results-driven Software Engineer with hands-on experience in building scalable, fault-tolerant applications using Java, Python, and SQL. Strong foundation in Data Structures, Algorithms, and System Design, with proven ability to optimize APIs, improve performance, and deliver high-quality features in distributed systems. Adept at tackling ambiguous problems and translating them into technical solutions at scale.

## Professional Experience

### Software Engineer Intern

Asta Sys Tech, Feb 2024 - March 2025

- Designed and developed backend services ensuring scalability, fault tolerance, and efficiency in distributed environments.
- Built and optimized REST APIs and SQL queries to support high-volume, multi-user systems.
- Applied data structures and algorithms to solve performance bottlenecks and improve query response time.
- Collaborated with cross-disciplinary teams in an Agile environment, delivering high-quality, production-ready features.
- Tackled ambiguous problems by breaking them into well-defined components and designing scalable solutions.

### Business Assistant

Aythroos Trading Company, Sep 2018 – July 2023

- Provided operational support and contributed to system enhancements for smoother workflows.
- Assisted in data-driven reporting and process optimization.

## Education & Learning

### Master's in Computer Applications

SRM University, Chennai, 2023 - 2025.

### Bachelor's of Computer Applications

The New College, Chennai, 2015 - 2018.

### Python Programming

Udemy, 2023.

## Projects

### News Website

September 2024 - October 2024

- Developed a real-time news aggregation platform with scalable architecture.
- Implemented efficient backend APIs capable of handling concurrent requests.
- Designed modular components using Angular and applied responsive UI principles.

### Business POS System

June 2024 – October 2024

- Built a web-based POS system for inventory and sales management.
- Optimized relational database queries for faster transaction processing.
- Ensured system fault tolerance and usability through scalable architecture design.

## Skills

- **Programming Languages:** Java, Python.
- **CS Fundamentals:** Data Structures & Algorithms, OOP, Problem Solving, Complexity Analysis.
- **Frameworks:** Angular, Spring Boot.
- **Distributed Systems:** Scalable backend services, Query optimization, API design.
- **Databases:** SQL Server, MySQL.
- **Tools:** Figma, Postman, Git, Apache Tomcat, Excel, PowerPoint, IntelliJ IDEA, Visual Studio Code.
- **Methodologies:** Agile, Microservices Architecture, Scrum.
- **Soft Skills:** Web Development, Project management, Collaboration, Analytical Thinking, Communication, Problem-solving.