

# KHUSHI SINGH

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## SUMMARY

Java-centric Software Engineer with strong foundation in Data Structures & Algorithms and proven ability in designing scalable, full-stack solutions. Experienced in building robust Android applications, distributed systems using microservices architecture, and modern web platforms. Passionate about writing clean, efficient code and solving complex system design problems (HLD & LLD).

## EDUCATION

### SRM Institute of Science and Technology

B.Tech in CSE — CGPA: 8.8/10

Chennai, India

Sept 2022 – May 2026

*Relevant Courses:* OOP Design, Advanced Algorithms, Operating Systems, Computer Architecture, Database Systems

## EXPERIENCE

### Moggapair Industrial Estate

*Junior Design Engineer*

Chennai, India

Feb 2024 – Present

- Applied OOD principles and design patterns to translate requirements into LLD documents with UML diagrams
- Designed system architecture for Java implementations, creating detailed technical specification documents

### IIT Madras

*Research Assistant*

Chennai, India

Dec 2023 – Feb 2024

- Managed IoT data flow with 40 Mbps throughput, reducing latency by 20ms for real-time system performance
- Implemented document scanning using Pytesseract, improving sorting functionality by 35%

### RevinTech

*Frontend Developer*

Chennai, India

Jun 2023 – Aug 2023

- Collaborated on data rendering from 10+ internal tables, improving user engagement by 30%
- Developed Java-based solutions reducing page load time by 2 seconds through system call optimization

## PROJECTS

### UberZen – Ride-Hailing Platform — [GitHub](#)

Nov 2023

*Java, Android, Microservices, WebSockets, Firebase*

- Designed and implemented a distributed backend with microservices for authentication, ride matching, and payments, ensuring fault tolerance and high concurrency support.
- Built the Low-Level Design (LLD) in Java for the driver-rider matching service, leveraging Factory & Strategy patterns and spatial data structures to achieve a 40% faster match time compared to brute force.
- Developed a WebSocket-based real-time communication layer, enabling 500ms latency live tracking with 100+ concurrent simulated users.

### JapaMitra – Meditation App — [GitHub](#)

Mar 2024

*Java, Android, Firebase, Canvas, MPAndroidChart*

- Developed a full-featured Android app with Firebase Auth & Firestore, supporting real-time cross-device sync of meditation sessions and secure cloud storage.
- Applied SOLID principles and MVVM architecture in Java, building a maintainable, testable codebase with a Canvas-based Mala bead animation (16ms response) and an accessibility-focused “Walking Mode”.
- Built an analytics dashboard with MPAndroidChart, visualizing user progress and boosting engagement by 3x through personalized goal tracking.

### Book Wings – Library Platform — [Live](#)

Jan 2024

*Java, React, MySQL, REST APIs, Apache Cordova*

- Developed full-stack application with dynamic recommendations and RESTful API (10+ endpoints)
- Implemented library network mapping 5+ locations for same-day delivery logistics
- Optimized performance reducing load times by 1.5s through image/API optimizations

## TECHNICAL SKILLS

- **Languages:** Java, JavaScript, Python, SQL, C++, HTML/CSS
- **Frameworks:** Spring Boot, Android SDK, React.js, Node.js, REST APIs, Microservices
- **System Design:** LLD, HLD, OOD, Design Patterns, Distributed Systems, Firebase

## ACHIEVEMENTS

- 1. Secured place in top 3 Students in Computer Applications in university .
- 2. Led winning team in college hackathon; tutored students in programming
- 3. Secured competitive web development internship during Class 12