

# MAHIMALURU VENKATA RAVIKUMAR

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## OBJECTIVE

Final-year B.Tech Computer Science student with strong foundations in **Java, Object-Oriented Design, Data Structures, and SQL**. Experienced in building full-stack applications using Spring Boot, Angular, and MySQL. Passionate about developing scalable enterprise applications, practicing clean architecture, and contributing through collaborative Agile development.

## SKILLS

**Programming Languages:** Java (Primary), JavaScript, Python

**Java & Enterprise Stack:** Spring Boot, Spring Data JPA, Hibernate, JDBC, REST APIs, Embedded Tomcat

**Frontend Technologies:** Angular, HTML5, CSS3, JavaScript

**Database:** MySQL (Joins, Indexing, Query Optimization), SQL Fundamentals

**Core Computer Science:** Data Structures & Algorithms, Object-Oriented Programming (OOP), Design Patterns (Basic), DBMS, Operating Systems

**Engineering Practices:** Layered Architecture, Dependency Injection, Debugging & Troubleshooting, SDLC, Agile Collaboration, Git

## PROJECTS & EXPERIENCE

**Online House Rental & Tenant Management System** | *Angular, Node.js (TypeScript), MySQL* [\[GitHub\]](#)

- Built a full-stack rental management platform handling booking, role-based access, and transactional workflows
- Participated in requirement analysis, system design, implementation, and testing phases
- Designed SQL queries and validation logic ensuring data consistency and integrity
- Refactored modules to improve maintainability and reduce code redundancy

**Hotel Reservation System** | *Spring Boot, Angular, MySQL, REST APIs*

[\[GitHub\]](#)

- Developed RESTful backend services using Spring Boot with Spring Data JPA and Hibernate for ORM mapping
- Designed relational database schema in MySQL and implemented repository layer using JPA
- Leveraged embedded Tomcat server for deployment and testing
- Applied object-oriented principles and layered architecture (Controller–Service–Repository)
- Diagnosed transactional and data consistency issues using systematic debugging techniques

**E-Commerce Backend System** | *Node.js (JavaScript), JWT, MongoDB*

[\[GitHub\]](#)

- Developed backend services managing cart, orders, and authentication workflows
- Implemented structured exception handling and validation to enhance system robustness
- Debugged workflow inconsistencies and optimized API performance
- Practiced clean coding standards and modular architecture design

## EDUCATION

**Kalasalingam Academy of Research and Education**

**2022 – Present**

Madurai, India

B.Tech in Computer Science and Engineering (*CGPA: 8.35/10.0*)

**Priyadarshini Junior College**

**2022**

Nellore, India

Pre-University Education (*Grade: 90.09%*)

**Nalanda English Medium High School**

**2020**

Nellore, India

Secondary Education (*Percentage: 95.3%*)

## CERTIFICATIONS

**The Complete 2024 Web Development Bootcamp – Udemy** : [\(Link\)](#)

**SQL Fundamentals – CodeChef** : [\(Link\)](#)

## ACHIEVEMENTS

- Solved 300+ Data Structures and Algorithms problems covering trees, hashing, dynamic programming, and graph algorithms
- Applied algorithmic thinking in real-world backend systems to improve performance and reliability
- Top 10 finalist in IBM Hackathon (College Level)