Krishna Teja Rangavajjala

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Master's student in Computer Science with hands-on experience building **FULL-STACK WEB** applications using Java, Spring Boot, and React.js. Strong foundation in data structures, algorithms, and scalable API development. Seeking an entry-level Software Engineering role to contribute to high-impact projects and grow in a collaborative environment.

Technical Skills

- **Programming Languages:** Java, Python, PHP, JavaScript, C, Swift, HTML/CSS
- **Frameworks & Tools:** Spring Boot, Spring MVC, Hibernate, Thyme leaf, React.js, Node.js, Next.js
- **Databases:** MySQL, PostgreSQL, MongoDB,
- **Web Technologies:** HTML5, CSS3, Bootstrap5, jQuery, Ajax, JSON, XML, Redux, UI Frameworks
- **DevOps & Version Control:** Git, Docker, Kubernetes, Jenkins, Maven
- **Machine Learning & Data Analysis:** Pandas, NumPy, Scikit-learn, KNN, Random Forest
- **Development Environments:** IntelliJ IDEA, VS Code, MySQL Workbench, Jupiter, Xcode

Education

- Master of Science in Computer Science
  Saint Louis University, Saint Louis, MO | **Aug 2023 – May 2025**
  Relevant Coursework: Web Programming, Machine Learning, Databases, Algorithms
  GPA: 3.5/4.0
- Bachelor of Technology in Information Technology
  CVR College of Engineering, Hyderabad, India | **Aug 2019 – May 2023**
  Relevant Coursework: Java, Data Structures, Software Engineering
  GPA: 3.1/4.0

Virtual Experience:

WinWinLabs – Safe Sense Project, Remote | June 2025 – Till Date

- Built modular interfaces using React.js, Next.js, and Tailwind CSS to support real-time monitoring of ESP32-based IoT sensor data.
- Integrated RESTful APIs to process and display live ambient and product-level readings, with support for temperature anomaly detection and alerting.
- Contributed to a scalable, cloud-native solution aligned with FDA food safety standards, targeting cold storage, logistics, and manufacturing sectors

Walmart USA – Forage | June 2025

- Built a custom heap data structure in Java for shipping operations
- Designed a UML class diagram for a reusable data processing system
- Created an ERD based on business requirements from the pet department

Projects

Job Portal Web Application

- Developed a secure, role-based job portal using Spring Boot, Hibernate, Thymeleaf, and Spring Security.
- Implemented user authentication and role-based access, enhancing data security.
- Improved query performance by 20% using optimized Hibernate queries.
- Designed and configured login, registration, and access control features for different user roles (admin/user).
- Wrote backend logic to handle job posting, searching, and application management.

Book Store Management System

- Built a full-stack inventory management system with Spring Boot, Thymeleaf, and MySQL.
- Streamlined data management, reducing data retrieval time by 15%.
- Designed database tables and implemented CRUD operations for managing books.
- Developed a responsive UI for adding, updating, and deleting books using Thymeleaf.

Movie Recommendation System

- Created a recommendation engine using Python, Pandas, and Scikit-learn.
- Improved prediction accuracy by 15% using data preprocessing techniques.
- Applied cosine similarity to recommend movies based on user viewing history.
- Processed and cleaned the dataset to remove duplicates and handle missing values for better accuracy.

Certifications

- PHP for WordPress (2020) – LinkedIn Learning
- Advanced Software Engineering Virtual Experience – Walmart USA (Forage)
- Google Cloud Computing Certification
- Oracle SQL Certification
- Technical Hackathon Winner

Professional Skills

• Problem-Solving, Debugging and Troubleshooting, Code Optimization, Algorithm Design