Sowmya Reddy Kakularapu

St.Louis,MO,63108**|** sowmyakakularapu02@gmail.com**|**+1(203)-829-2756**|** linkedin.com/in/sowmyareddykakularapu

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EDUCATION

Master of Science in Computer and Information Sciences: Saint Louis University, GPA:3.74/4.00 **May 2025**

Coursework: Advanced Software Development, Information retrieval, Analytics, Mobile and web development, Data Visualization

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TECHNICAL SKILLS

- **Programming Languages:** JavaJ2EE, Python, SQL, JavaScript
- **Frameworks & Libraries:** Spring Boot, Hibernate, Microservices, JPA, React.js, JSP, JSF
- **Web Technologies:** HTML5, CSS3, Bootstrap
- **Databases:** MySQL, MongoDB, SQL Server
- **Tools & DevOps:** Git, GitHub, Maven, Docker, Jenkins, Postman
- **Testing:** JUnit, Mockito, Jest
- **Cloud Platforms:** AWS (EC2, S3), CI/CD Pipelines**,** Docker, Kubernetes
- **Concepts:** RESTful APIs, JWT Authentication, Role-Based Access Control, Agile Methodology

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WORK EXPERIENCE

Java Full Stack Developer, Wipro Technologies Limited, Hyderabad, India **Jun 2022 – Jul 2023**

Project: Liberate – Customer Service Billing System

- Engineered dynamic and responsive UIs using **React.js, JSF, JSP**, and **JavaScript,** enhancing customer experience and reducing user task time by 25%; integrated **RESTful APIs** using **Spring Boot** for seamless backend connectivity.
- Optimized **MySQL** database operations using **JPA** and **Hibernate**, achieving a 30% improvement in query performance and ensuring secure, scalable data access across modules.
- Implemented secure authentication and authorization mechanisms with **JWT** and **Spring Security**, enabling efficient role-based access control and reducing security-related incidents.
- Streamlined development and deployment workflows by containerizing the application with **Docker**, deploying to **AWS EC2,** and integrating **CI/CD** pipelines, reducing deployment time by 40% and ensuring faster feature rollouts.
- Collaborated in cross-functional **Agile teams**, ensuring high code quality using **JUnit, Mockito, Jest**, and **Git/GitHub,** and driving efficient feature delivery with rapid resolution of complex technical challenges.

Java Developer Intern|Wipro Technologies Limited|Liberate **Feb 2022 – Jun 2022**

- Contributed to front-end development using JSP, JSF, and JavaScript, enhancing UI responsiveness and reducing page load times by 20%.
- Supported backend API integration and test coverage using JUnit and Mockito, helping identify and resolve defects early, improving code reliability by 30%.
- Collaborated within Agile Scrum teams, accelerating sprint delivery cycles by assisting in bug resolution and streamlining feature implementation workflows.

ACADEMIC PROJECTS

SkillMatch Pro – Role Recommender App | Saint Louis University **Feb 2025- Apr 2025**

Technologies Used: Java, Spring Boot, React, MySQL

- Developed a full-stack application that recommends job roles based on user-selected skills with over 90% match accuracy. Built RESTful APIs to compute skill-role match percentages, implemented a dynamic React frontend, and designed a relational MySQL schema to map users, skills, and roles efficiently.

Smart University Management System| Global Grad Scholar Project-Saint Louis University **May 2024- July 2024**

Technologies Used: Java, Spring Boot, Hibernate, React.js, MySQL

- Built a centralized platform to streamline student services, faculty management, and campus operations with high accuracy and efficiency. Developed the backend using Spring Boot, Hibernate, and RESTful APIs, and implemented a responsive frontend using React.js, JSP, and JSF. Utilized MySQL for robust data management and ensured seamless integration across modules, improving administrative accuracy and operational productivity by over 85%.

LangSwap – Peer-to-Peer Language & Skill Exchange Platform **Oct 2023- Jan 2024**

Technologies Used: Java, Spring Boot, React.js, MongoDB

- Developed a full-stack barter-based platform enabling users to exchange skills and languages with over 92% matching accuracy using smart skill-timezone mapping. Integrated WebRTC video chat, session scheduling, and real-time feedback to support seamless peer learning without payments.

Big Mart Sales Prediction Using Machine Learning **Nov 2021 – Jan 2022**

Technologies Used: Python, Pandas, Scikit-Learn, XGBoost, Regression algorithms

- Forecasted sales for multiple store locations by applying machine learning algorithms like linear regression, random forest, and XGBoost. Conducted data preprocessing, feature engineering, and model evaluation to improve accuracy.