

VENKATA VARASIDDI MANOJ KUMAR JALA

E-mail: jalav@iu.edu

Phone: +1 930 - 333 – 4219

SKILLS

Languages: C/C++, Python, Java, Javascript, SQL, HTML/CSS

Technologies & Tools: Elasticsearch, Spring, ReactJS, Redux, MongoDB, GraphQL, NodeJS, Postman, Git, AWS

WORK EXPERIENCE

Software Engineer - 1, Verizon

April 22 - August 23

Tech-stack: Java, Spring-boot, Spring-webflux, Postman, GraphQL, Rest-API, ReactJS, Redux

- Java and Spring Boot: Spearheaded the development and validation of 10 RESTful APIs within a Spring Boot microservices architecture, leveraging reactive Java programming techniques, resulting in a 30% increase in API usage.
- Endpoint Enhancement: Augmented five existing REST endpoints across three distinct microservices using Spring WebFlux, enhancing service efficiency and robustness by optimizing resource handling.
- Test-Driven Development: Directed a cross-functional team to identify and resolve critical bugs, increasing application uptime by 20% through rigorous automated testing with Junit and Jacoco for code coverage.
- Front-End Development with ReactJS: Engineered responsive front-end components utilizing ReactJS, Redux, and Saga.js, elevating user engagement by 20%. Focused on creating user-friendly interfaces and seamless user experiences through innovative design and efficient coding practices.
- Performance Optimization: Executed code splitting techniques to reduce initial load times by 50%, enhancing overall user experience.
- Communication and Leadership: Articulated complex technical details to cross-functional teams and stakeholders across time zones, which aligned project objectives and resulted in a 20% increase in project delivery speed.

INTERNSHIP EXPERIENCE

Research Intern – IIT Hyderabad.

Tech-stack: Python, CUDA, Linux, ImageNet

- Optimized the YOLO Object Detection algorithm with new recognition capabilities, leveraging Python and CUDA for enhanced performance.
- Advanced the Social-LSTM project by curating and refining datasets, improving model training and accuracy.

EDUCATION

Computer Science (M.S), Indiana University Bloomington

Spring 2025, GPA: 4

Computer Science & Engineering (B. Tech), SRM Institute of Science and Technology.

Spring 2021, GPA: 8.72

ENGINEERING PROJECTS

Bot Bazaar

Fall 2023

- Designed and implemented a comprehensive robotic rental platform leveraging React.js, Redux, Node.js, and MongoDB, facilitating seamless user interactions and robust data management.
- Implemented features like robot lifecycle management, image upload (AWS S3), and location tracking (Google Maps API).
- Enhanced user authentication and security through OAuth by implementing two-step authentication, which included integrating SMS and email verification methods.
- MongoDB Integration: Designed and implemented a comprehensive robotic rental platform with robust data management using MongoDB, ensuring efficient handling of large datasets and seamless user interactions.

Face mask detection and alert system

Spring 2021

- Developed a face mask classifier using a CNN algorithm and RESNET 50 architecture, achieving 92% accuracy and processing real-time video streams at 30 frames per second.
- Integrated automatic snapshot and email alert features for non-compliance to mask mandates.