

Ramya Harshitha Bolla

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SKILLS

Languages: JavaScript, TypeScript, Python, Java, SQL, C, C++

Frontend: Angular 2+, React, NgRx, RxJS, Bootstrap, HTML5, CSS3

Backend: Node.js, Express, Java, Spring Boot, RESTful APIs

Databases: MongoDB, MySQL

Tools & Version Control: Git, GitLab, JIRA, Visual Studio Code, Docker, Postman

Concepts & Methodologies: Agile, SDLC, MVC, API Design, Responsive Web Design, Component-Based Architecture

WORK EXPERIENCE

Graduate Teaching Assistant | *University of Kansas*

Aug 2024 – Present

- Assisting the course instructor in training undergraduate students to mastering concepts in 'Introduction to Computing: Python' while recognizing student challenges and enhancing teaching strategies. Conducting weekly lab sessions and grading their assignments.

Software Engineer | *IDS Next Business Solutions Pvt Ltd*

Dec 2022 – Dec 2023

- Developed user-friendly interfaces for hotels, bars, and restaurants to simplify the front office operations such as room reservations, KOTs, billing process using Angular, TypeScript, JavaScript, HTML, and CSS, enhancing the overall user experience.
- Collaborated with product managers to simplify complex features, making the application more intuitive for end users.
- Took ownership of critical bug fixes and implemented rigorous unit testing, reducing post-release issues significantly and redeveloped legacy features to meet new client requirements, improving system functionality.
- Utilized Angular Pipes to enable dynamic language selection, ensuring localization based on user region.

Programmer Analyst | *Cognizant Technology Solutions*

Mar 2021 – Sep 2022

- Developed highly responsive, interactive UI components using ReactJS, JavaScript, HTML and CSS to enhance performance and user engagement.
- Collaborated with QA teams to automate 10,000+ test cases using Protractor and JavaScript, reducing smoke testing time from 6 hours to 30 minutes and resolved critical bugs, ensuring on-time and successful product releases.
- Participated in defect triage, status meetings, and walkthroughs, collaborating with cross-functional teams to align on requirements and optimize processes.

EDUCATION

University of Kansas, USA

Jan 2024 – Dec 2025

Master of Science, Computer Science [4.0/4.0]

SASTRA University, India

Jun 2017 – May 2021

Bachelor of Technology, Electronics and Communication Engineering

ACADEMIC PROJECTS

Enhancing Parallel Merge Sort - Dynamic Load Balancing

- Designed and implemented a dynamic load-balancing strategy for parallel merge sort to optimize thread utilization. Leveraged real-time imbalance ratio monitoring and **OpenMP** task scheduling to redistribute workloads dynamically, reducing idle thread time and improving sorting performance.
- Achieved up to **2.4× speedup** over standard parallel methods and **5.1×** over sequential sort.

Fitness Feast - Full-Stack Web App

- Developed a full-stack fitness web app enabling meal logging, protein tracking, streaks, and badge gamification using **Angular, TailwindCSS, Node.js, Express, and MongoDB**.
- Built **secure RESTful APIs** with **JWT** authentication, **bcrypt hashing**, data aggregation, and **interactive dashboards** using Chart.js for real-time nutrient insights.
- Deployed on Vercel and Render/Railway, Dockerized with **PWA** offline support, **WebSocket real-time leaderboards**, and **CI/CD** pipelines.