

## EDUCATION

**California State University, Fullerton, California**  
*Master of Science, Computer Science*

**May 2024**  
GPA: 3.74

**Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad, India**  
*Bachelor of Science, Computer Science*

**May 2022**  
GPA: 3.51

## EXPERIENCE

**Teaching Associate at California State University, Fullerton**  
*Teaching Associate - Front End Engineering*

Fullerton, California  
January 2024 – May 2024

- Facilitated the development of advanced front-end engineering skills for **37+** learners, delivering expert guidance in **JavaScript, Node.js, React, and TypeScript**. Drove successful outcomes through mentorship and clear communication, fostering technical growth and preparing individuals to tackle complex development challenges.
- Devised a structured curriculum with comprehensive materials, including **50+** code reviews, **4** open-source projects, and **2** debugging workshops, reinforcing core front-end principles and ensured scalable learning and practical application of best practices
- Utilized platforms like **GitHub Classroom**, **react environments** and testing tools (**Jest, Enzyme**) to involve advanced testing strategies enhancing unit and integration testing, leading to a **30%** boost in project quality and a **20%** improvement in debugging efficiency.

**The SPARKS Foundation**  
*Software Development Intern*

Hyderabad, India  
February 2022 - July 2022

- Collaborated with project managers and UX designers to augment cross-device user experience using **JavaScript & Bootstrap**, boosting mobile usability metrics by **25%** and saving **20%** on development time during the internship.
- Incorporated **Selenium** for automated testing, mitigating manual efforts by **30%** and optimizing the testing process, enhancing software quality throughout the tenure, contributing to a **higher quality** and **faster release cycles**.
- Orchestrated **seamless database integration** across **30+** webpages, enabling real-time updates and enriching user interaction and functionality with robust backend scripts in **Python** and **PHP** during a 6-month internship.

## PROJECTS

**Gourmet Recipe Book App** | TypeScript, Angular, Python, Firestore, Git

March 2024 - July 2024

- Designed a recipe management app using **TypeScript** and **Angular**, supporting and considering **5,000+** data points over 5 months, focusing on **maintainability** and **scalability**.
- Strengthened security by implementing **MVC**-based authentication with **Firestore**, bolstering data protection measures; cut login-related issues by **30%** during a targeted 4-month phase.
- Streamlined reliability and app execution using **Angular lazy loading** and **Firestore indexing**, culminating in a **20%** reduction in load times while ensuring smooth deployment.

**Digital Streaming Dashboard** | JavaScript, React, Python, GraphQL, Firebase

October 2023 - January 2024

- Engineered a Digital Streaming Dashboard using **React** and **JavaScript**, improving user retention by **20%** with a user-friendly interface and reduced bug occurrence by **30%** through rigorous **debugging** practices within 4 months.
- Leveraged **Firebase** for robust Backend Integration and **GraphQL** for efficient data retrieval, efficiently managing **50+** Query Requests daily and supporting **40+** streaming assets.
- Harnessed **Python** for backend data processing and **API** integration, handling complex data operations and enhancing data synchronization between the frontend and backend systems.

**Automatic Tunnel Incident Detection** | Python, JavaScript, Docker, WebSocket

June 2023 - August 2023

- Launched a Faster **RCNN** model for tunnels, attaining **97%** accident detection accuracy during the 3-month project.
- Spearheaded performance optimization initiatives, accelerating response times by **25%** and minimizing frame noise by **40%** over a focused 3-month interval.
- Embedded real-time alerting via **WebSocket**, slashing incident response times by **50%** and ameliorating overall safety monitoring effectiveness through dependable operation.
- Optimized deployment with **Docker**, cutting time by **40%**, and enhancing **scalability** and **performance** consistency.

## TECHNICAL SKILLS

- Languages: Java, Python, C/ C++, SQL, GraphQL, HTML/ CSS, JavaScript, Go, TypeScript, Kotlin, PHP
- Frameworks: React, Redux, Angular, Node.js, Bootstrap, Figma, Flask, Tailwind, Fast API, Selenium, Express.js
- Developer Tools: Git, GitHub, Docker, Kubernetes, MongoDB, jQuery, GCP, AWS, Azure, VS Code, Eclipse, IntelliJ, Postman, Android Studio, PyTorch, TensorFlow, Firebase, Jira, Trello, Tableau, PowerBI, Jest, Enzyme.