Saicharan Vishwanatha

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EDUCATION

Colorado State University, Fort Collins, *Master's in Computer Science (GPA: 3.86/4.00)* ***(Expected)May'2025***

Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad, *Bachelor's in Computer Science* ***May'2023***

TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript, TypeScript, Java, C
- **Web Technologies**: HTML5, CSS3, jQuery, XML, Bootstrap, Angular, React JS, Express JS, Node JS
- **Databases**: MySQL, PostgreSQL, MongoDB, DynamoDB
- **Technologies/Tools:** AWS, Git, Docker, Jenkins, Postman, Spring Boot, Jest, Junit, Selenium, Bitbucket, VS code

PROFESSIONAL EXPERIENCE

Software Engineer | TCS (Tata Consultancy Services), Hyderabad **Aug'2022 -Jun'2023**

- Developed and maintained responsive, user-friendly interfaces for web applications using HTML, CSS, JavaScript, and ReactJS, improving load time efficiency by 20%.
- Spearheaded a CRM project by designing intuitive front-end components to manage 100% of customer order details, enhancing user experience and reducing navigation complexity by 30
- Led front-end development for a finance management system, designing pages to manage partner information, Goods Receipt Notes (GRN), and other financial data, resulting in a 15% reduction in data entry errors.
- Collaborated with 5+ cross-functional teams, including backend developers and UX designers, to deliver feature-rich, scalable applications focused on performance and usability.
- Ensured cross-browser compatibility, responsive design, and adherence to accessibility standards, increasing platform compatibility across all major browsers.

Software Engineer Intern | Virtusa, Hyderabad **Dec'2021 - May'2022**

- Built and deployed a custom analytics dashboard for a retail client, enabling real-time insights into customer purchase patterns, which led to a 25% increase in data-driven decision-making speed.
- Implemented RESTful APIs to connect the client's mobile app with backend services, achieving 99.9% uptime and reducing data synchronization lag by 30%.
- Refactored database queries to enhance system efficiency, improving response time by 20% and reducing server load by 15%.
- Worked on automated unit tests to ensure code reliability, increasing test coverage by 85% and decreasing regression issues by 40%.
- Partnered with the client's tech team to define requirements and deliver customized solutions 2 weeks ahead of schedule, enhancing client satisfaction by 30%.

Student Mentor | Smart Interviews, GRIET, Hyderabad **Apr'2021 – Aug'2021**

- Mentored 50+ students in algorithm optimization for competitive programming, leading to a 20% improvement in coding efficiency and 15% higher competition rankings.
- Guided students in prototyping 10+ web and mobile app features, accelerating their technical skills development by 30%.
- Led debugging sessions, helping students resolve 70% of logical and runtime errors independently.
- Organized 15+ pair programming exercises, fostering collaboration and peer learning, resulting in a 40% increase in code quality.
- Designed mock interview problems for feature development, preparing students for real-world software engineering roles, with 80% of participants securing internships and job offers.

PROJECTS

Personalized Recipe Generator | Node.js, React.js, MongoDB, OpenAI API

- Built a web application to generate personalized recipes based on user preferences, dietary restrictions, and available ingredients, achieving a 30% increase in user engagement.
- Engineered a feature-rich web application using React.js, Node.js, and MongoDB, integrating OpenAI API for AI-driven personalized recipe generation, real-time nutritional analysis, and grocery API for seamless ingredient purchasing, reducing meal planning time by 50%.

Mouse Cursor control using facial movements |Dlib, OpenCV, NumPy, Imutils

- Created a facial movement-based mouse control system with eye gesture clicks, aimed at aiding physically challenged users, optimized by testing 100+ EAR and MAR thresholds, resulting in 95% accuracy in gesture recognition.
- Constructed a hands-free mouse control system using Dlib, OpenCV, and NumPy to address accessibility challenges for physically challenged individuals, enabling cursor control and clicks via facial gestures, improving usability by 60%, and enhancing user independence by 50%.