Shyam Sundar Bahety

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Education

University of Florida   Gainesville, FL
Master of Science in Computer Science (GPA: 3.49/4.0)   *Aug 2023 – May 2025*

Technical Skills

Languages: JavaScript, TypeScript, Java, Python, C#, RLang
Frameworks and Libraries: ReactJS, VueJS, Node.js, ElectronJS, ReactNative, Flask, Redux, Webpack
Developer Tools: Git, Docker, Google Cloud Platform, AWS, Github, Git, Jira, Jenkins, CI/CD, Linux, Unit Testing
Database Management Systems: SQL, NoSQL, MongoDB, Microsoft SQL, Oracle SQL, MySQL

Experience

Graduate Assistant   April 2024 – Present
University of Florida   *Gainesville, FL*
- Orchestrate comprehensive software lifecycle management, encompassing application development in R and Shiny, web app maintenance, CI/CD pipeline administration, and deployment oversight for diverse lab projects

Software Developer Intern   May 2024 – Aug 2024
CommerceIQ   *Remote, United States*
- Designed and developed a **new UI platform** from scratch to replace a 7-year-old legacy system, reducing development time by more than two-thirds and improving system performance and scalability
- Revamped the reporting interface by integrating **customizable data widgets** and interactive features using VueJS, leading to a 1.4x increase in user engagement and receiving positive feedback from 85% of users
- Created components that were adopted by other teams for new product lines, reducing the time for adding new widgets from 2-3 weeks to just 2 days, achieving a 90% reduction in time-to-market
- The new platform contributed to closing half of the deals with prospects by providing a reporting platform for **visualizing complex e-commerce data**, demonstrating its value in enhancing customer satisfaction and driving sales

Software Development Engineer UI 2 (Front end-developer)   Dec 2021 – Aug 2023
CommerceIQ   *Bengaluru, India*
- Spearheaded the development and successful delivery of high-impact features for **retail giants such as Walmart and Target.** This strategic initiative led to an impressive 80% contract renewal rate among customers
- Pioneered the conception and development of advertising tools meant for industry leaders such as **Amazon and Walmart,** resulting in a remarkable 40% expansion of our customer base
- Designed configurable, reusable components that increased adaptability and functionality based on configurations, resulting in a 50% reduction in development time and a significant improvement in system performance
- Received recognition and an award for the swift delivery of a product, which was instrumental in establishing a **partnership with Walmart.** This project led to CommerceIQ's official designation as a partner, boosting brand visibility

Full Stack Developer   Aug 2020 – Dec 2021
Betsol Pvt Ltd   *Bengaluru, India*
- Orchestrated a comprehensive **user interface overhaul**, integrating the FluentUI library and transitioning 70% of the codebase from JavaScript to TypeScript for enhanced functionality and maintainability
- Managed and optimized the user interface of a backup application, which was developed using React (JavaScript+ TypeScript) & ElectronJS. Achieved a substantial 90% code coverage to ensure high-performance, reliable, testable and maintainable code
- Executed the implementation of multiple new features for intricate UI components, enhancing overall functionality and user experience, resulting in 20% reduction in support tickets related to UI issues.

Projects

Automated Attendance System | *React, Python, Flask, MongoDB*
- Engineered a Progressive Web App (PWA) that automates student attendance by processing submitted class photos. Implemented features for capturing attendance and viewing records, which streamlined the attendance process, reducing manual entry time by 75% and increasing record accuracy by 40%
- Developed the User Interface with ReactJS and crafted the backend server using Flask. Implemented face detection and identification with OpenCV and CNN libraries, resulting in a 90% accuracy rate for face recognition. Utilized MongoDB for efficient database storage, reducing query response times by 60%

Sorting Visualizer | *React, TypeScript, JavaScript*
- Engineered an interactive sorting visualizer web application, implementing multiple sorting algorithms and enabling users to dynamically adjust array size and animation speed
- Optimized visualization performance by leveraging efficient DOM manipulation techniques, reducing render time by 40% and allowing smooth animations for arrays of up to 50 elements