

Kiran Manikonda

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Skills

Programming Languages: Java, Python, C#, JavaScript, SQL, C, C++, HTML/CSS, SystemVerilog

Frameworks / Tools : React, Node.js, ASP.NET, Express, Docker, Postman, Apache Spark, Azure Cloud, Git

Professional Experience

Software Developer | Hidden

San Luis Obispo, CA (Remote) | Jan 2023 - Sept 2023

- Helped launch a profitable startup with a community of 200+ monthly users, utilizing cross-platform tools to design, implement, and iterate upon full-stack app features for both Android and iOS platforms
- Responsible for integrating support for institutional logins, implementing multi-factor authentication and incorporating privacy-by-design principles to ensure compliance with data protection requirements
- Refactored a frontend codebase developed by separate teams, improving code maintainability & performance
- Created CI/CD pipelines to automate the build, testing, and deployment processes across multiple platforms
- Tools Used: React Native, Node.js, Jenkins, JavaScript, Tailwind CSS, Figma Wireframes, Git

Research Assistant | Cal Poly Corporation

San Luis Obispo, CA | Oct 2022 - Present

- Research initiative to explore uses of machine learning & present findings to students and research faculty
- Created a mobile app that helps farmers identify defective fruit in crop yields, utilizing Java and TFLite to integrate ML models trained by compiling 85,000 images & leveraging OpenCV to automate image labeling
- Collaborated with two students to develop an informed search algorithm that outperformed conventional methods in playing the New York Times 'Spelling Bee' game, demonstrating an 87% improvement over DFS

Software Developer Intern | Along Comes Hope

San Luis Obispo, CA | June 2022 - Aug 2022

- Contributed to frontend development projects at a web-based nonprofit, working closely with Senior developers to build React JS frontends for the organization's main homepage and member services
- Implemented responsive design principles to ensure a consistent website experience for desktop and mobile

Education

California Polytechnic State University - San Luis Obispo

December 2023

Bachelor of Science in Computer Engineering

- Relevant Coursework: Data Structures, Object Oriented Programming, Systems Programming, Algorithm Design, Computer Networks, Database Systems, Operating Systems, Computer Security, Distributed Systems

Projects

Bug Tracker (Personal Project) | C#, JavaScript, ASP.NET, React, SQLite, Docker

<https://bug-tracker-km.vercel.app>

- Developed a ticketing system that helps developer teams efficiently report, track, and resolve project issues
- Implemented a real-time notification system that monitors the database to notify users on ticket submissions
- Created a user role management system that allows admins to manage project settings and user permissions
- Developed a feature that allows users to view a complete log of all project actions & undo previous changes
- Streamlined deployment and scalability by containerizing the app with Docker and publishing to Docker Hub

Soundbytes (Personal Project) | JavaScript, React, Node.js, Express, MongoDB, Postman

<https://sound-bytes.vercel.app>

- Developed a web application that utilizes text-to-speech to generate audio books from user-uploaded PDFs
- Created a custom audio player that allows users to start, pause, stop, and select moments in generated audio
- Implemented a user profile system that allows users to save and manage their audio books and settings
- Leveraged runtime speech generation and JWT authentication to minimize server storage and reduce latency
- Utilized test-driven development with Postman to verify REST API functionality and ensure server reliability

Acoustic Release (Capstone Project) | C, Python

- Interdisciplinary team project to construct a low-cost undersea probe for tracking whale movements near the Cal Poly Pier, responsible for developing embedded software needed to interface with the onboard electronics
- Developed a data processing module used to parse sonar transmissions sent between the probe and an offshore computer, leading to successful deployment of the probe's recovery system and navigation controls