Kiran Manikonda

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Skills

Programming Languages: Java, Python, C#, JavaScript, TypeScript, SQL, C, C++, HTML / CSS
Frameworks / Tools : React JS, Next.js, ASP.NET, Node.js, Express, Docker, Postman, AWS, Azure Cloud, Git

Professional Experience

Software Engineer Intern | EDUrain St. Louis, MO (Remote) | Sept 2023 - Present

- Tools Used: React JS, Next.js, GraphQL, Firebase, AWS, TypeScript, JavaScript, Tailwind CSS, Git

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

- Helped develop a scalable travel platform that matches users with local businesses, employing cross-platform tools to design, implement, and refine full-stack application features for both Android and iOS environments
- Responsible for integrating single sign-on authentication support, implementing multi-factor authentication, and incorporating privacy-by-design principles to ensure compliance with data protection requirements
- Achieved high test coverage on the frontend, streamlining development and improving code maintainability
- Created CI/CD pipelines to automate the build, testing, and deployment processes across multiple platforms
- Tools Used: React Native, Node.js, Jenkins, JavaScript, React Native Testing Library, Figma Wireframes, Git

Research Assistant | Cal Poly Corporation San Luis Obispo, CA | Oct 2022 - Present

- 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
- Tools Used: Java, Python, OpenCV, PyTorch, TFLite, Jupyter Notebook, Git

Software Developer Intern | Along Comes Hope San Luis Obispo, CA | June 2022 - Aug 2022

- Developed the frontend for a Software as a Service platform, integrating third party APIs, implementing responsive design, and collaborating with backend developers to integrate business logic into the application
- Tools Used: React JS, JavaScript, HTML / CSS, Git

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, Algorithms, Computer Networks, Database Systems, Operating Systems, Computer Security, Artificial Intelligence

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 rollback feature that allows users to obtain a log of all project actions & undo previous changes

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
- Utilized client-side speech generation & JWT authentication to reduce server storage and improve scalability

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