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
- Responsible for end-to-end development of a messaging feature as the primary developer. Responsibilities include creating and maintaining design documentation, designing a responsive UI, writing unit tests, developing the frontend, and integrating a Firebase backend into an existing microservice architecture
- Assisted Senior developers in fixing bugs and resolving production issues in weekly coding sessions
- 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
- 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
- Utilized client-side speech generation & JWT authentication to reduce server storage and improve scalability