ROBERT SANCHEZ

Software Engineer
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A versatile software developer specializing in frontend development. Proficient in a broad range of technologies including React, TypeScript, C, and Python. Passionate about building scalable, efficient and user-friendly applications. Proven track record of enhancing user experiences and optimizing performance. Always eager to adopt new tech & methodologies.

Technical Skills

Programming Languages: TypeScript, JavaScript, C, C++, Python, Java, HTML, CSS, SASS
Frameworks: React, NextJS, TailwindCSS, Express, Three.Js, GSAP, Shadcn
Tools & Other platforms: NPM, Git, Yarn, Vercel, GitHub, Firebase, Appwrite, Convex, Clerk

Professional Experience

Frontend Simplified   **Remote | Sep 2024 – Present**
Frontend Engineer | Intern
- Transformed a completely static HTML, CSS, JavaScript and React single page application into an interactive user interface using animations, transitions and carousels in 20% less time than expected.
- Processed API requests with Axios to dynamically retrieve data from a cloud server and displayed it with skeleton loading states, pagination and dynamic routing.
- Utilized Git version control and the GitHub interface to work and thrive in a virtual and collaborative team environment.

Spellman High Voltage Corporation   **Hauppauge, NY | Aug 2023 – Present**
Systems Engineer | Mid
- Create Compliance Matrices using Visure to shorten Verification/Validation procedure time by 20%
- Collaborate with different engineering disciplines to ensure compliance of end products
- Troubleshoot and resolve issues with GUIs programmed in C and C++ to reduce workload of the embedded systems team

Apple   **Remote | July 2021 – Dec 2021**
Full Stack Software Engineer | Intern
- Designed and implemented a mentorship feature for an existing directory application using React and Typescript, enhancing user engagement by 30%.
- Collaborated with cross-functional teams to streamline the user journey by reducing the average number of clicks needed across all features, resulting in a 20% decrease in bounce rates.
- Conducted unit testing with JUnit, achieving 95% test coverage and ensuring code reliability.

Projects (personal)

Apple Website Clone:
Clone of Apple's product page for their flagship product iPhone 15
- Developed a clone of Apple's product page using React, Javascript, HTML, and TailwindCSS.
- Used GSAP for all animations on scroll trigger

Podcast App:
AI-Driven Platform for listening to and generating podcasts
- Implemented podcast app where users can create/listen to podcasts using Appwrite for backend functionality.
- Used OpenAI API to allow users to generate thumbnail images and podcast audio based on text prompt.

Mock Health Management System:
Healthcare system that allows easily scheduling of doctors appointments
- Developed a Health Management System allowing users to more easily stay connected with their health provider with NextJS, React, Javascript, and CSS best practices.
- Utilized Shadcn components to improve reusability and user experience.

Education:

Bachelor of Computer Science, Stony Brook University, New York, 2021: 3.0 / 4 GPA, Student Mentor

Other

Interests: Racquetball, long-boarding, coding, gaming, cooking
References: Barry Schneider– Director of Systems Engineering @ Spellman High Voltage (number provided upon request)
Jonathon Shea– Embedded Systems Engineer @ Spellman High Voltage (number provided upon request)