Jonathan Martinez

Software Engineer

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xminent

Technical Skills

Front-End | TypeScript, React, Next.js, NextUI, HTML5, CSS3
Back-End | C++, Node.js, Express, MongoDB, Rust, Python
Tools | Git, npm/yarn, AWS, CMake, Puppeteer

Software Engineering Applications

Back-End Software Engineer, *YTunes*
Backend application that allows users to stream music and video from YouTube to their Amazon Alexa.

- Utilized YouTube's API to scrape information about videos.
- Optimized user experience by analyzing user intent using Alexa's *Intents* system.
- Deployed service using AWS Lambda which improved response times and overall system stability.
- GitHub: **Readme**

Technologies: Node.js, AWS, TypeScript

Full-Stack Software Engineer, *Xminent*
A multi-purpose personal website that functions as a portfolio, blog app, and REST API.

- Developed a frontend skeleton using modular, reusable React components.
- Modeled data and API endpoints to allow for seamless frontend integration to the backend.
- Implemented static site generation using Next.js for improved page load times, meeting Google Lighthouse requirements.
- GitHub: **Readme**

Technologies: React, Next.js, TypeScript, Tailwind

Back-End Software Engineer, *Ekisocket*
A networking library for use in small-scale applications utilizing HTTP, WebSocket, and TCP/UDP.

- Bootstrapped a cross-platform socket abstraction that allows users to create low-level applications from any operating system.
- Implemented multiple web standards as per their respective RFC specification.
- Integrated *OpenSSL* for use in secure network activity, such as HTTPS or WSS, which can communicate sensitive data.
- Generated extensive documentation detailing the behavior and functionality of the API with *Doxygen.*
- GitHub: **Readme**

Technologies: C++, CMake, OpenSSL, Doxygen

Education

Bachelor of Science in Computer Engineering, *Illinois Institute of Technology* 2020 – present