James Huang

Software Engineer | jhuang4647@gmail.com | (917) 774-7027 | [LinkedIn](#) | [GitHub](#) | [Personal Website](#)

Technical Skills

Programming Languages: JavaScript, TypeScript, HTML, CSS, Sass, Python, SQL, C
Libraries & Frameworks: React, Next.js, Redux, Node.js, Express, Tailwind, Jest, Flask
Tools: Git, GitHub, Postman, MongoDB, PostgreSQL, webpack, Babel, Docker, AWS

Experience

Software Engineer - OSLabs | NextSketch - Next.js Prototyping Tool   2023 — Present
- Incorporated TypeScript to add static typing to codebase for compile-time error detection and enhanced readability
- Leveraged React to build front-end architecture with functional components for optimized client and server-side rendering
- Utilized React Context API to streamline data sharing between components for accessibility to a single source of truth
- Designed with MaterialUI to enhance user experience by using a suite of customizable pre-built components and intuitive theming system for a consistent design pattern and responsive functionality in application
- Engineered sortable, hierarchy-based drag and drop code element interfaces with dnd-kit to provide intuitive user interaction and minimize DOM mutations for generation of Next.js boilerplate code and refined application performance
- Elevated user visualization with D3.js to showcase real-time tree hierarchy of endpoints and Prism.js to provide a syntax highlighted, live-code snippet preview for improved and dynamic file representation
- Constructed an Express server to facilitate directory and file creation using Node.js file system module and to export prototyped Next.js project for real-time user engagement
- Built with Vite to enable efficient dependency handling and hot module reloading for faster build and server cold start speeds
- Launched the application with Node.js runtime in Electron to leverage Chrome's V8 Engine and to access cross-platform reachability for high performance desktop applications
- Refined with Jest to create unit tests to mock folder and file creation and drag and drop interaction for increased reliability
- Facilitated daily stand-ups, sprint planning, and code reviews with engineering team in accordance with Agile principles
- Product developed under tech accelerator [OS Labs](#) with 100+ GitHub stars

Open Source Contributions

Software Engineer | Rackdar - Tennis Court Locator
- Integrated Redux with React to maintain and update state across an application for multiple components to share by creating a centralized data store and predictable state container for improved state management and data flow
- Implemented React Router to elevate user experience and to optimize client and server-side rendering of SPA by routing users to various paths that render components based on conditional logic

Software Engineer | Memo - Vocabulary Assistance Application
- Deployed a PostgreSQL database to store ACID-compliant vocabulary data, facilitating seamless user interaction
- Created with webpack to minify and uglify the application for deploying a single lightweight file to production

Education

Stony Brook University, *B.A. Biology* 2023

Publication/Talks

Speaker | Tech Talk - [Cross Site Security Risks and Data Prevention Mechanisms](#)
Author | Medium Article - [Supercharge Prototyping with NextSketch](#)

Interests

Paddler | Dragon Boat Racing - Paddling in large canoe vessels amongst a 20-person crew team across rivers for good fortune