# Owen Hill - Software Engineer

(224) 374-7445 | owenghill@outlook.com | linkedin.com/in/owenghill | github.com/owenpa

## SKILLS

**Strong:** JavaScript, TypeScript, React, Redux, Node, Express, webpack, NoSQL, HTML, SCSS, CSS, Git, GitHub, Docker, Kubernetes
**Experienced:** SQL, Python, C++, Java, Jest, Puppeteer, Selenium, OAuth, bcrypt, Prometheus, AWS Services

## EXPERIENCE

**Software Engineer | Brizo (Open Source) -** Kubernetes and Docker Metrics with CIS Standard Benchmarks          2023
- Combined the **Kubernetes** API endpoints for exposing data with **Prometheus**' ability to query and interact with exposed endpoints to retrieve cluster metrics and data, which is eventually sent to the frontend to be properly displayed.
- Utilized **React**'s flexibility and state updates to generate, format, and fill previously created components with information to display a structure that represents a Kubernetes cluster.
- Used **TypeScript** to ensure consistency of value types throughout the entire codebase by checking for type errors at runtime and leveraged improved tooling features like code completion and increased code navigation abilities that are offered, greatly reducing the number of potential errors throughout the product.
- Leveraged **Chart.js**' ability to create charts and map essential metrics in the appropriate forms upon request to display graphical images of how the current resources are being used.
- Opted for the **Axios** HTTP client over the Fetch API for requesting information from the backend, as Axios implicitly handles JSON conversion and Axios' syntax is more intuitive, further increasing code readability.

## PROJECTS

**Software Engineer | Study With Me -** Virtual Studying Space and Dashboard          2023
- Handled state with **React Hooks** and isolated stateful logic from the **functional components** to prevent unnecessary data sharing and access, which decreases the potential of vital information being overwritten, thus allowing for expedited support.
- Implemented **webpack** to speed up development times by implementing hot module reloading and decreasing file sizes by bundling the code before file distribution which generates the single-page application
- Incorporated **SCSS'** more intuitive variable and nesting syntax over **CSS**' syntax, improving style consistency by removing manual value tracking and maintaining the organization of stylesheet files as the codebase grew

**Software Engineer | Trendy -** View Popular Areas of Interest by Interacting with Public APIs          2023
- Generated a **MongoDB** database for storing users and favorited products as the formatting of the data required the flexibility of a **non-relational** database and did not require leveraging the stricter system that **relational** databases provide.
- Implemented Google's **OAuth** as an alternative login and signup for users, for its increased out-of-the-box security, allowing usage of the favoriting feature at no time expense.
- Applied **React Router** to minimize the total number of requests sent between client and server by forcing client-side routing for all specified routes, further reducing latency between points and enabling a more seamless user experience.
- Employed the **Material UI** library to display a structurally consistent design throughout multiple browsers and greatly reduce time spent styling by building off the prebuilt library.

## EDUCATION AND CERTIFICATIONS

**Codesmith Immersive:**
- Advanced Residency for Software Engineering

**Google IT Automation with Python Certificate:**
- Python, Git, automation of IT support and system administration, automation at scale

**AWS Cloud Practitioner (WIP):**
- High-level understanding of AWS Cloud, services, and commonly used terminology

**CompTIA A+:**
- Cloud computing, cybersecurity, Linux, Mac, and Windows support, virtualization

## TALKS AND PUBLICATIONS

**Sponsored Talk on the Internet Of Things**          Jeeny and Bractlet
**Brizo Article**          Medium

## INTERESTS

**Stock Market & Finances | Cybersecurity & Low-Level Languages | Competitive Gaming | Game Development**