439 West Washington St, Ionia, MI, 48846 | 740-641-7921 | jacob.milhorn@gmail.com

I AM A VALUE-DRIVEN SOFTWARE ENGINEER

with the ability to break down complex problems into small, manageable pieces in order to systematically approach large designs with many moving parts. Fluent in **CS fundamentals**, data structures, algorithms, **server-side** and **REST API** development and consumption. Focus area is **client-side** development, with an emphasis on **performance optimizations**.

TECHNOLOGIES

Modern JavaScript/Typescript, CSS3, HTML5, **Vue**, **Node**, Webpack, Vite, **11ty** (Static Site Generation), REST, Puppeteer, Apify, Island Architecture, Web Component, **JAMstack**, Netlify, Digital Ocean

Experience

OWNER/LEAD DEVELOPER | Hyperion Web | March 2020 - present

In-House Development Projects

Hyperion publishing template (see paid client sites below)

- Designed custom static website technology stack for building extremely high-performance websites and user experiences per Google Specifications (Lighthouse).
- All sites built with 11ty static site generator, SASS, Nunjucks, in-house CSS design framework, Alpine.js, and Google Maps APIs. Headless architecture using Netlify for CDN and Digital Ocean for hosting Ghost CMS.
- Total mobile responsiveness using minimal media queries (Flexbox).

Auditron Automated SEO Test Runner application & Decoupled Front End

- Node/Express Server with long running child process management, polling and results endpoints.
- Exposes **custom web crawler** (built on Puppeteer) & Google Lighthouse Batch Running Services.
- Front (Vue) and Back End (Node/Express) in a Decoupled Architecture.
- Tool used to streamline web auditing process for lead generation and resulted in quickly building trust and gaining multiple new clients for Hyperion Web.

Paid Client Projects

- Custom design, build, deployment and management of each of the following client websites.
- Led team to build out entire digital presence and find success for each customer.
- stoutlaw.org

• Managed web and SEO strategy that **improved customer revenue 54.5%**.

poweredengineering.com

• Took customer from **no search presence at all to front page branded keyword search.** <u>temperinc.com</u>

• Site currently ranks one first page for **10+ non-branded**, **industry specific keywords**.

Prototype Deployed in Real Business Environment

ionia.apartments - Property Management Application for Private Real Estate Investment

- Vue 3 application using PrimeVue UI components, Vue Router, Composition API, form validation.
- Streamlines property marketing, lead communication, and the entire application process.
- Used to successfully manage real investment property.

MECHANICAL DESIGN ENGINEER | October 2016 - March 2020

Carbon Fiber Airplane Wing Advanced Manufacturing Research at Temper Inc.

- Worked with team to designed theoretical tooling that used novel electromagnetic induction technology to evenly heat carbon fiber plies for airplane wing fabrication.
- Automated Packaging Machinery Design Engineering at Integrated Packaging Machinery
 - Designed and managed production of high-end packaging automation systems in the dairy industry.

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING | 2016 | Calvin University