

Timmy Lem

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TECHNICAL SKILLS

Proficient: JavaScript (ES6+), TypeScript, React (Hooks, Router), Redux, Svelte, Node.js, Express.js, HTML, CSS, SASS, SQL, NoSQL, webpack, Authorization (OAuth, Bcrypt), Git, D3.js, REST API

Experienced: AWS (Elastic Beanstalk, EC2, ECR, IAM, RDS, S3), Testing (Jest, Vitest, Cypress, Puppeteer), Vite, Svelte Testing Library, React Testing Library, Travis CI, Vercel, Rollup, Docker

EXPERIENCE

Svelte - *Lightweight Svelte Component Library for Building Node-Based Flow Diagrams* **2022 - Present**

Software Engineer

- Currently used by MIT Lincoln Laboratory AI & Algorithms Division, npm 5000+ weekly downloads, 1,500+ [GitHub](#) stars
- Utilized Svelte and JavaScript to add new features such as interactive node linking/creation, an interactive minimap and editable nodes, improving the user experience by adding in commonly requested features.
- Employed Svelte to build scalable and flexible components for the front-end library, making it an ideal choice for creating an NPM package. Its built-in store and reactive features further solidified its suitability for the task.
- Applied ambient declarations from TypeScript to ensure type consistency and reduce user-created type errors in the NPM package, which allows the package to be modular and secure when integrated into codebases using TypeScript.
- Implemented the D3.js library to take advantage of its large amount of features to simplify complex mathematical equations required to implement new features like the interactive minimap and programmatic zoom.
- Utilized Vercel's CI/CD pipeline to check the YAML configurations that run Cypress, which tests the website features and for basic Svelte functionality ensuring that all features are working as intended.
- Integrated GitHub OAuth to allow users to log into the Svelte website using their GitHub accounts and save custom Svelte projects using REPL in the playground environment.

OPEN SOURCE

Instant Payload- *Grocery Delivery Web App* - [GitHub Repo](#) **2022**

Software Engineer

- Implemented a PostgreSQL database for an e-commerce grocery delivery platform to provide a high-performance and low-maintenance solution for storing and organizing data in a structured, readable format.
- Designed an Express/Node.js backend to handle HTTP requests to numerous endpoints and leverage middleware design pattern to efficiently modularize backend requests and manage data flow between the frontend, backend and database.
- Utilized React and React Router to create a seamless and fast experience for users when navigating between pages in the single page web app, utilizing modularized components, and ensuring scalability and flexibility

Gorilla Mode - *Web App For Workouts* - [GitHub Repo](#) **2022**

Software Engineer

- Employed React to manage state, simplifying the passing and updating of state across rendered components to simultaneously deliver both a pleasant developer and user experience.
- Leveraged the Express framework in a Node.js environment to efficiently organize routes and chain middleware functions, while also taking advantage of the benefits of using a NoSQL database like MongoDB, such as its high performance and scalability for handling large amounts of unstructured data.
- Utilized webpack to compile JavaScript, HTML, and CSS into a single Javascript module, which allowed the application to run more efficiently by reducing the number of network requests made by the browser and improving the overall performance of the application.

EDUCATION

University of California, Riverside, Riverside, CA - *Bachelor's of Arts* **2020**

OTHER

- **Talks & Certifications:** Jeeny & Bractlet Software Engineering Speaking Series on New React & Redux Features
- **Interests:** Powerlifting | Eating at new restaurants | Fashion | Building keyboards | Video games | Board games | Traveling