

Languages:

[JavaScript](#) [TypeScript](#) [HTML](#) [CSS](#) [Python](#) [C/C++](#) [Ruby](#)

Technologies:

[React](#) [Redux](#) [Vue](#) [Svelte](#) [Node.js](#) [Express.js](#) [Jest](#) [Git](#) [React Native](#)Experience

Relay Financial | Full Stack Software Engineer

May 2024 – Aug 2024

- Simplified registration to reduce drop-off rates by **2.2%** on Relay's banking platform trusted by **120,000+** businesses
- Discovered and fixed a vulnerability in the backend using **Node.js** and **Express.js**
- Spearheaded major accessibility improvements such as keyboard navigation support with **HTML** and **CSS**
- Designed and implemented a new flow for accepting invites on Relay's **React Native** mobile app

Capital One Canada | Front End Software Engineer

Sep 2023 – Dec 2023

- Improved screen reader and keyboard support for homepage with **40,000** daily visitors using **JavaScript** and **HTML**
- Built 5 foundational components for the company's next generation **React** component library with **TypeScript**
- Implemented accessible Modal Dialog with systems for limiting screen reader and keyboard interactions within modal

Vidyard | Software Developer

Sep 2022 – Apr 2023

- Worked on the Onboard team to improve the new user experience on Vidyard's sales video platform
- Implemented an overlay with **Vue** to guide users to settings page, helping **14%** more users correctly setup video settings
- Fixed Chrome extension bug causing users to record multiple videos at once, saves **330,000** redundant clicks per month
- Maintained a **Ruby on Rails** backend and migrated the **SQL** database to drop obsolete data

Hemora Ltd. | Front End Developer

Jan 2022 – Apr 2022

- Designed and built the entire front end of Hemora's flagship map app with **React** and **TypeScript**
- Implemented an offline-first map editor for solar technicians with queueable network requests using **Redux**
- Constructed an interactive map editor UI controlled by an **XState** state machine to guarantee expected UI behaviour
- Designed the company's logo, brand identity, website and custom icons with **Figma**

Molex Canada | Front End Software Developer

May 2021 – Aug 2021

- Created a web app in **Vue** and **TypeScript** for configuring devices that control automated assembly lines
- Maintained **Vue** web app for remotely configuring industrial automated systems
- Wrote unit tests with **Jest** and End-to-End tests with **Gauge** and **Python**

Projects

CrystalCube [🔗](#)

2023 – Present

- Invented online tool for training Rubik's Cube first step with **1400** weekly views and endorsement by world-class cubers
- Wrote and optimized DFS algorithm in **TypeScript** to generate scrambles and solutions **13x faster** than competitor
- Developed a responsive UI with **React** and pioneered novel 3D visualizer for incorrect Rubik's Cube pieces with **Three.js**

AlgDB [🔗](#)

2023 – Present

- Developed full-stack **Next.js** web app for centralized Rubik's Cube algorithm database with a team of 10 engineers
- Implemented **SSO** authentication using NextAuth and **Prisma** with a custom OAuth provider for World Cube Association

ZZMethod.com [🔗](#)

2023 – Present

- Established a **Next.js** website for learning Rubik's Cube technique with over **37,000** page visits
- Designed interactive 3D visuals and wrote **16,000+** words of high-quality articles with a team of 3 experts

Virtual Yearbook [🔗](#)

2021

- Created a web app with **Svelte** for signing digital yearbook pages via shareable links during the pandemic
- Implemented a canvas with adjustable brush size & colour, undo/redo and image export using **JavaScript**
- Built a **Node.js** backend with **Express.js** for endpoints and **MongoDB** database

Education

University of Waterloo | Bachelor of Software Engineering

2020 – Present