

## Experience


### York Region

 github repo

Software Developer April ⇒ August 2018

- ⇒ Developed an internal communication tool with Node, Express and the Handlebars templating engine
- ⇒ Features include Google + Azure Active Directory based authentication and live-chat based discussion forums built with Socket.io
- ⇒ Gave live recorded talks to company employees on the capabilities of Node as a primary development stack
- ⇒ Produced and maintained several internal applications with Salesforce and the Microsoft PowerApps suite of tools

### Waterloop

 github repo

Web Team Sept 2018 ⇒ Present

- ⇒ Created single sign on application to manage member's access to common resources
- ⇒ Developed user authentication and management tools to streamline personnel changes
- ⇒ Implemented using React, Node, MongoDB and modern JavaScript (fetch, async await etc)
- ⇒ Used Twitter API to display relevant media on Vue based team site

### WATonomous

Dashboard UI Team Sept 2018 ⇒ Present

- ⇒ Implemented a logging interface for an autonomous car using C++ and Qt Components
- ⇒ Displays information and error messages from numerous internal car systems

## Education

### University of Waterloo

2017 ⇒ 2022

Candidate for Bachelors of Computer Science

## Interests & Activities

Vim themes, plugins, etc  
Podcasting, audiobooks  
Graphic Design - fonts particularly  
Finance & Entrepreneurship

## Skills

### Languages

JavaScript C C++ Racket (Lisp) ActionScript  
Bash

### Libraries


React Express SASS Bootstrap Mongoose  
Vue

### Technologies

Node Git MongoDB Vim NPM Babel  
Webpack Linux


## Projects

### JavaScript Chess AI

 github repo

- ⇒ Determines next move by evaluating possible scenarios a variable number of moves into the future
- ⇒ Uses a minimax tree with alpha-beta pruning and a hash-map based board state representation

### Personal Website

 github repo


- ⇒ Created a terminal emulator allowing the user to navigate the entire site through text commands
- ⇒ Produced interactive SVG graphics, CSS animations and a responsive design
- ⇒ Implemented using React, SASS, Adobe Illustrator and Sketch

### C++ Multiplayer Tetris

 private repo

- ⇒ Implemented text-command autocompletion with a trie, and flexible block rotation using linear algebra
- ⇒ Modified object behaviour at runtime using a doubly-linked list based implementation of the decorator pattern

### Spotify Music Curation

 github repo

- ⇒ Aims to help groups quickly find music enjoyed by all members
- ⇒ Creates new playlists based on music contributed by members
- ⇒ Created using Node, React, Redux and MongoDB