

misspia.me

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## skills

Development Languages: JavaScript (ES6), C++, C, Python, Scheme, HTML, CSS, SQL, GLSL Web Tools: Node.js, React, Redux, Angular, Electron, Webpack, Gulp, Sass, Less, D3.js, WebGL, Express Other Tools: Postgres, React Native, Qt, Git

# projects

### League of Legends Analytics Tool bit.ly/2wtR813

SEPT 2017 - PRESENT

- Designed and implemented a high-impact, user-centered React + Redux front end to visualize game analytics
- Developed a **Python** scraper and architected a **Postgres** database with **sequelize** to store and serve League of Legends champion and gameplay data

### Pokedex Web App + API bit.ly/2fJHcUi

- Architected a **Postgres** database to store Pokemon data scraped using **Node.js** for efficient read access
- Implemented front-end using React + Redux with a Node.js (Express) backend to handle database queries
- Optimized production build and development process using customized Webpack 2 configurations

### Geometric Audio Wave Form Visualizer bit.ly/2fjxBTS

JUN 2017 - JULY 2017

- Structured a **React** playlist application using a **flux** based architecture
- Analyzed and rendered audio frequency data onto an HTML canvas using processing-like techniques

### D3 Geographic Esports Visualization bit.ly/2xoWW9j

JAN 2017

- Scraped and aggregated esports earnings data using Node.is
- Rendered processed data into a 3D self-rotating globe choropleth (heatmap) using D3.js

# experiences

#### Freelancer / co-founder | studio-ki.co

SEPT 2017 - PRESENT

- Effectively worked with and provided consultation for clients to bring mobile and web applications to life
- Made architectural desicions to create **scalable** applications, directed branding and financial operations

### Software Engineer, part-time (Manufacturing Tools) | Thalmic Labs

SEPT 2017 - PRESENT

- Reduced manufacturing process time by 33% by developing intuitive interfaces using React with flux to communicate with machinery software via WebSockets
- Increased scalability by migrating and re-architecting legacy web applications to modern frameworks

#### Software Engineer (Prototyping) | Thalmic Labs

MAY 2017 - AUG 2017

- Architected a React CRUD app that manages software updates, reducing QA inaccuracy by 90%
- Developed Qt / QML applications for user testing to validate product designs
- Implemented a desktop screen capture tool using **Electron** that streams image / video data to remote devices, improving Design team efficiency

### Full Stack Developer (Lab of Forward Thinking) | Manulife

SEPT 2016 - DEC 2016

- Effectively communicated with stakeholders and designers to launch department's internal website redesign
- Developed Angular charting directives using D3.is for cutting edge retirement investment tool

## education

University of Waterloo, Bachelor of Accounting and Finance CLASS OF 2018