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skills

Development Languages: JavaScript (ES6), C++, C, Scheme, HTML/CSS, SQL, GLSL Web: Node.js, React, Redux, Angular, Electron, Sass, D3.js, Express, Webpack, Gulp

Graphics: WebGL, ThreeJS, Canvas, Blender3D

Other: Postgres, React Native, Qt, Git

projects

WebGL Sketchbook bit.ly/2BcthOE

JAN 2018 - PRESENT

• A collection of shaders exploring various techniques in WebGL/GLSL including metaballs, particle systems and noise functions. Implemented using an **object oriented** approach

• Handled routing and mounting between sketches via React + React Router

Pokedex Web App + API bit.ly/2yhWQ1h

OCT 2017 - JAN 2018

- 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 gueries
- Optimized production build and development process using customized Webpack 2 configurations

Processing Audiograph 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

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

experiences

Freelancer | misspia.me

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

Software Engineer Intern (Manufacturing Automation) | Thalmic Labs

SEPT 2017 - DEC 2017

- 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 Intern (Prototyping) | Thalmic Labs

- Architected a React CRUD app that manages software updates and releases, reducing QA inaccuracy by 90%
- Developed Ot / OML 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 Intern (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.js for cutting edge retirement investment tool

education

University of Waterloo, Bachelor of Accounting and Finance **EXPECTED GRADIATION: APRIL 2018**