

misspia.me

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## skills

Languages: JavaScript (ES7), TypeScript, GLSL, C++, C#, C, QML, HTML/CSS

Web: Node.js, React, Redux, Apollo GraphQL, Next.js, Vue.js, D3.js, styled-components, Webpack

Graphics / Engines: WebGL, Shaders, Three.js, Blender3D, Unity3D

Other: GraphQL, Postgres, React Native, Git

# projects

#### Kaeswap kaeswap.com

DEC 2018 - PRESENT

• A platform for K-Pop entusiasts to trade and resell merchandise and event tickets. Received **thousands** of pageviews and **hundreds** of daily active users during the KCON LA 2019 event

• Developed modular form components using **React Hooks** and handled requests with **Apollo Client** 

### WebGL Sketchbook bit.ly/2BcthOE

JAN 2018 - PRESENT

- A sandbox and journal for documenting my WebGL journey. Contains a collection of **shaders** and **Three.js** experiments exploring noise functions, postprocessing techniques and more
- Routing and mounting between sketches handled via React + React Router

### Pokedex Web App + API bit.ly/2MX18CA

OCT 2017 - JAN 2018

- Architected a Postgres database to store Pokemon data scraped using Node.js for efficient read access
- Implemented frontend using React + Redux with a Node.js (Express) backend to handle database queries

### D3 Geographic Esports Visualization bit.ly/2xoWW9i

JAN 2017

• Rendered aggregated esports earnings data into an interactive globe choropleth (heatmap) using D3.js

# experiences

### Frontend Developer (Interactive Web) | MediaMonks

MAY 2019 - PRESENT

- Implemented a messaging app with chat subscriptions and instagram-like user stories using Vue.js
- Delivered an interactive build-to-order tool for Hyundai's G80 model using Vue.js and GSAP animations

#### Frontend Engineer | Yolk AI

JULY 2018 - JAN 2019

- Implemented features for service desk automation tools using a React / Apollo Client frontend and communicated with a GraphQL backend. Contributed to Jest component testing
- Developed internal theming library based on **emotion.js** and created reusable form components
- Built a sankey diagram using D3.js that dynamically takes in and visualizes application usage data

### Software Developer (CANVAS) | Mosaic Manufacturing

FEB 2018 - JULY 2018

- Architected and prototyped the frontend for CANVAS, a **React/Redux** app for easing the process of preparing and slicing models for multi-material 3D printing
- Handled model uploads and interaction via **Three.js**. Features include drag & drop coloring of models using ray tracing, model transformations and normalizing grouped model uploads
- Implemented authentication and model slicing calls via Node.js backend and Amazon's DynamoDB

### Software Engineer Intern (Manufacturing Automation) | North (formerly Thalmic Labs)

MAY 2017 - DEC 201

- Increased scalability of production tools by migrating Qt and legacy web apps to modern frameworks
- Developed **React** based tools using **WebSockets** and the browser's **Gamepad API** to allow users to easily communicate with production machinery via precision controllers

## education