

Michael Kim

4B Computer Science at University of Waterloo

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Skills

- Languages: **JavaScript (ES11, TypeScript, Flow)**, **C / C++**, **Python**, **HTML / CSS (Sass)**
- Tools: **Node.js**, **React (+ Native)**, **Redux**, **Docker**, **GraphQL**, **Relay**, **jQuery**, **MongoDB**

Education

University of Waterloo — Candidate for Bachelor of Computer Science, Co-op Sep 2016 – Dec 2020

Work Experience

Citadel — Software Engineering Intern — Chicago, IL Jan - Apr 2020

- Rewrote collection of Hapi-based packages for web server routing, authentication, session storage, logging
- Designed and deployed new CI/CD pipeline for Node services using Docker, Nomad, and Bamboo
- **Technologies:** **TypeScript**, **Docker**, **Hapi**, **Swagger**, **Nomad**, **React**, **Redux (+ Saga)**

Wish — Full Stack Engineering Intern — San Francisco, CA May - Aug 2019

- Implemented tools for admins to monitor merchant payment holds, such as generating reports
- Designed and rewrote pages on the Merchant Dashboard to improve usability and maintainability
- **Technologies:** **Python**, **MongoDB**, **Backbone.js**, **React**, **MobX**, **Flow**

Facebook — Front End Engineering Intern — Menlo Park, CA Sept - Dec 2018

- Refactored launch page from scratch into an SPA with designs based on developer feedback
- Added GraphQL endpoints to provide Relay front-end with similar data as old launch page
- **Technologies:** **React**, **GraphQL**, **Relay**, **Redux**, **Flow**, **Hack**

Facebook — Front End Engineering Intern — Menlo Park, CA Jan - Apr 2018

- Added editor functionality that allows users to zoom and crop photos in their personalized videos
- Implemented view rasterization to show live preview in share thumbnail for personalized video editor
- **Technologies:** **React (+ Native)**, **Redux**, **Flow**, **Hack**

Yahoo! — Software Engineering Intern — Sunnyvale, CA May - Aug 2017

- Created new mail module that displays important emails for users on Yahoo homepage
- Added opt-out survey when switching to old Mail version to collect user feedback
- **Technologies:** **React**, **Redux**, **Mocha**, **Jest**, **Protractor**, **Jira**

Projects

Neutrino — 📱 /neutrino & 📱 /webview Jul 2019

A lightweight, cross-platform Electron clone, featuring an embedded JS engine and a custom webview library

- **Technologies:** **C++ (WinRT, Cocoa, GTK)**, **Duktape**, **Babel**

Lyra — 📱 /lyra, 📱 /lyra-mobile, & 📱 /lyra-server (lyra.michael.kim) Jun 2019

A cross-platform music player and YouTube streaming app, for desktop, web, and mobile

- **Technologies:** **React (+ Native)**, **Redux**, **TypeScript**, **Webpack**, **Flow**, **Express**

15 Puzzle — 📱 /15puzzle & 📱 /15puzzle.js (15puzzle.michael.kim) Jan 2018

An efficient and optimal C++ solver for the generalized 15-Puzzle, ported to WebAssembly

- **Technologies:** **C++**, **WebAssembly**, **JavaScript**, **Emscripten**

Interests

- Interested in rhythm games, machine learning, game development, solving Rubik's Cubes