

Michael Kim

4A Computer Science at University of Waterloo

🌐 michael.kim
🔗 LenKagamine
📧 michaelkim314@gmail.com
📁 Avadonia314

Skills

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

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

- Implemented view rasterization to show live preview in share thumbnail for personalized video editor
- **Technologies:** **React** (+ Native), **Redux**, **Flow**, **Hack**

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 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 (puzzle.michael.kim) Jan 2018

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

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

MercuryWM — 📄 wheel-org/mercurywm (🌐 Chrome Web Store) Aug 2017

A Chrome extension that transforms the new tab page into a multi-windowed terminal environment

- **Technologies:** **React**, **Redux**, **Webpack**, **Flow**, **CircleCI**, **Chrome Extension**

Education

University of Waterloo — Candidate for Bachelor of Computer Science, Co-op 2016 - 2021

Interests

- Hobbies include rhythm games, transcribing music, solving Rubik's Cubes
- Interested in machine learning, UI/UX design, game development