Michael Kim

4B Computer Science at University of Waterloo

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Skills

- Languages: **JavaScript (ES2021, TypeScript, Flow), C / C++20, 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
- Integrated NLP with internal search tool to provide accurate and relevant information for traders
- **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
- **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