WAYNE HO

10836 132A ST, Surrey, BC, V3T 3Y3
778-861-4021 | w.ho@alumni.ubc.ca

EDUCATION

University of British Columbia **Vancouver, BC**
Bachelor of Applied Science, Electrical Engineering **Sept 2010 – Apr 2015**

WORK EXPERIENCE

MetaOptima – Vancouver, BC **Sept 2018 – Present**
Senior Front-End Engineer **Sept 2020 – Present**

- Optimized and reduced JavaScript bundle sizes by up to 85% with webpack's bundle splitting and dynamic imports
- Improved developer's experience by migrating to React Hooks and TypeScript and integrating hot module reloading, css-in-js and React Testing Library
- Assessed UI/UX designs with designers and CTO for complexity and technical feasibility
- Collaborated with marketing, mobile and R&D team to implement new features

Front-End Engineer **Sept 2018 – Sept 2020**

- Implemented responsive web designs using React, Redux, SASS and JQuery with cross-browser and localization support
- Improved the efficiency of integrating new PDFs by developing a web app to accurately translate text positions
- Developed and maintained features built with HTML5 Canvas, SVG, and three.js

Xiiis Technology – Vancouver, BC **October 2016 – April 2018**
Full Stack Developer

- Developed and maintained back-end and front-end features using an in-house Node.js framework, Redis, jQuery, and SASS
- Integrated an external video slots API and implemented an Advanced Messaging Queueing Protocol for real time data feed
- Developed a real-time chat and private messaging system using Socket.io and Redis PubSub

PROJECTS

Best Buy Stock Monitor + Automated Checkout **Apr 2021**

- Optimized and automated the checkout process to complete purchases in as quickly as 4-5 seconds
- Successfully purchased items with single digit stock
- Developed with Node.js, TypeScript, PlayWright, Socket.io and AWS

Microcontroller Hand-held Game **Jun 2015**

- Designed a hand-held game in C using an ARM 32-bit microcontroller
- Developed peripheral drivers to interface LCD, joystick, audio jack, EEPROM memory and analog to digital converters
- Reduced memory size by 36% by encoding the 16-bit pixel data as an index in an 8-bit color palette lookup table

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Node.js, Python, C, HTML, CSS

Frameworks: React, Redux, React Router, Webpack, Jest, React Testing Library, Django

Software: PyCharm, VS Code, Git, BitBucket