

BRIAN CHAN

COMPUTER ENGINEERING



bkhchan@uwaterloo.ca



(416) 832-8061



linkedin.com/in/brian-king-hei-chan

SKILL HIGHLIGHTS

- **Key languages:** Java, JavaScript, Python, PostgreSQL, SQL
- **Frameworks & Libraries:** React, Redux, Vue, Knockout, Angular, Node, Express, Webpack, Flask
- **Environment & Tools:** Git, NPM, Azure, Postico, Android Studio

EXPERIENCE

SOFTWARE ENGINEER – Founded

Fall 2018

- Developed management panels and notification components using ReactJS to incorporate and onboard startup companies
- Implemented credit card component integrated with stripe api using ReactJS to charge customers monthly payments
- Created minute book panel with PostgreSQL to store and manage startup company's legal documentation
- Conducted code reviews daily to maintain codebase quality and streamlining development process

SOFTWARE DEVELOPER – Validus

Winter 2018

- Designed and wrote user dashboard using VueJS to integrate with Validus api allowing client to configure requests and retrieve insurance coverage
- Developed Java code for data cube used for analyzing statistics and predict client's insurance quotes
- Coordinated cross-team tasks to improve development practices

FRONT-END DEVELOPER – Cineplex

Summer 2017

- Full-stack development; wrote an invoice builder using KnockoutJS and SQL, allowing clients to place advertisements in movies' pre-shows
- Redesigned and implemented a film poster uploader using C#, increased synchronization efficiency from 15 minutes to seconds
- Managed and trained full-time personnel in quality assurance department and conducted tests on cineplex application

SOFTWARE DEVELOPER – Microsoft

Fall 2016

- Front-end development; implemented a search feature using AngularJS in new advertisement application launched by Microsoft
- Conducted, designed, and documented a thorough test plan for Microsoft application under SIT and UAT environment interfacing with Azure
- Optimized application's SQL functions and stored procedures efficiency by reducing load time by 30%

WEB STATISTICS SPECIALIST – AAFC

Winter 2016

- Build analytics and perform production tests using Netinsight to provide statistics to development and media teams
- Coordinated with development team to redesign and improve AAFC internal site's user interfaces

PROJECTS

VIA Passenger Rail Car Pneumatic Brake Testing App

Winter 2020

- Android app designed to allow VIA employees to conduct train pressure tests on a tablet device

EcoSort – HackHarvard Winner

Fall 2018

- React app designed for a smart waste recycle container that scans and filter waste

EDUCATION

BACHELOR OF COMPUTER ENGINEERING

University of Waterloo

KEY LEARNING

Programming in C++, Java, Python: Architecture, data structure, algorithm, database design, android development, reinforcement learning, autonomous vehicles