Justin Toh

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EDUCATION

UNIVERSITY OF BRITISH COLUMBIA

BASc in Computer Engineering
Graduating in May 2018
Transcript Available Upon Request

LINKS

tohjustin.github.io
github.com/tohjustin
ca.linkedin.com/in/tohjustin

COURSEWORK

UNDERGRADUATE

Computer Communications
Data Structures & Algorithms
Digital Systems Design
Introduction to Computer Systems
Software Engineering
Software Project Management
Operating Systems
Principles of Software Construction

SKILLS

LANGUAGES

C • Java • JavaScript • PHP
• Python

WEB DEVELOPMENT

AWS • CodeIgniter •
CircleCI / TravisCI • CSS / SCSS •
Firebase • Gulp • HTML5 • JWT •
Karma • Node.js • MongoDB •
Mocha / Chai / Sinon • MySQL •
React.js • Redux • Vue.js • Webpack

EXPERIENCE

ARISTA NETWORKS | Software Engineering Intern

May 2017 - Current | Burnaby, BC Canada
- Working on Arista CloudVision Telemetry web application using React, Redux, D3, ES6 and Webpack.

LEDGERDOCS | Web Application Developer Co-op

May 2016 - Sept 2016 | North Vancouver, BC Canada
- Shipped new features into LedgerDocs, such as realtime dashboard & enhancing our QuickBooks Online integration feature.
- Created a test suite using PHP-webdriver & Selenium to automate E2E testing on our web application.

GENERAL ELECTRIC | Design Verification Co-op

May 2015 – Dec 2015 | Burnaby, BC Canada
- Developed a TkInker-based GUI application & python scripts to automate the programming of configuration data into EEPROM & Flash memory chips.
- Wrote firmware for performing register configuration & data transactions between VxWorks-embedded device, ARM MCU & Vitesse PHY Chip.

SINGAPORE ARMED FORCES - RSAF

Air Warfare Officer (Ground Based Air Defense)
Jan 2011 – Dec 2012 | 163 SQN, Singapore

PROJECTS

TRAILSEC

Security Guard Monitoring System | Group Project
- Wrote the firmware & drivers for our wearable device (prototyped on an Altera DE1-Board) to interface with external peripherals such as Bluetooth, GPS etc.
- Developed a real-time web application with Vue.js, Google Maps API & Firebase to display security guard's location data.

POMODORI

Material-design flavoured pomodoro timer
- Application uses the pomodoro technique to help users to manage their time by breaking down work into intervals.
- Utilized Service Worker API to provide offline functionality & push notifications.

CYANN

Learning Management System | Group Project
- Collaborated with an Agile team of 6 students in developing a Learning Management System (similar to Piazza) over 12 weeks.
- Designed & built the backend API service using Node.js + MongoDB, secured over HTTPS with JWT Authentication.