

## Education

University of Waterloo  
Honours Computer Engineering  
GPA: 3.7/4.0

### **Relevant Courses:**

- Algorithms and Data Structures
- Operating Systems
- Embedded System Design
- Discrete Mathematics
- Digital Computers and Systems
- Electronic Circuits

## Qualifications

### **Languages:**

- C/C++
- C#
- Java
- JavaScript
- Scheme
- SQL
- HTML/CSS
- XML
- ARM ISA
- MATLAB
- VHDL
- Git

### **Technical Proficiency:**

- Logic Gates
- Operating Systems
- Digital Systems
- Linux OS
- Computer Hardware
- Finance and Capital Markets

## Awards and Achievements

*University of Waterloo*

**President's Award of Distinction  
Scholarship (\$2,000)**

*BC Ministry of Education*

**BC Achievement Scholarship  
(\$1,250)**

## Work Experience

*NexJ Systems Inc. – Toronto, ON*

**May 2017 – Aug 2017**

### **Fullstack Developer – Product Development**

- Developed a new backend security system based on personal research that dictated the transparency and accessibility of data throughout our client's different levels of management
- Collaborated with senior managers and UI/UX designers in product design and proceeded to implement these new features with minimal supervision
- Resolved bugs in both the frontend (HTML/CSS) and the backend (Java/JavaScript/Scheme) in an agile environment
- Conducted numerous presentations to other developers and managers regarding new features and patch updates

*KPMG LLP – Toronto, ON*

**Sept 2016 – Dec 2016**

### **Software Developer – Digital Compliance**

- Took initiative to independently develop a Capital Markets data automation and analysis tool that is now profiting over 10 million dollars per annum for the company
- Created both the frontend (XML) and the backend (C#) and generated SQL databases, stored procedures, and scripts for ease of data manipulation
- Collaborated closely with senior partners, managers, and other tax professionals in the software design process

*PAVAC Industries – Vancouver, BC*

**Jan 2016 – Apr 2016**

### **Junior Electrical Engineer**

- Assembled and wired a \$600,000 Electron Beam Welder with other members of the Electrical Department and completed the project 30% faster than the previous machine
- Edited schematic designs/drawings for the BIAS and Arc Protection PCB boards using Zuken e3

## Projects

### **Avalon Web – Completed**

- A web application version of the board game Avalon with support for multiple number of players created with HTML/CSS/JavaScript
- Automated game setup process and gameplay through random role assignment and JS scripts carrying out host procedures

### **GPS Navigator – Completed**

- Developed a Java Application on Android Studio that collected readings from internal sensors to calculate walking displacement and generate GPS navigation
- Created a recursive algorithm to determine the shortest path between the user's chosen starting point and destination
- Implemented an UI that updates a Graph View display accelerometer and gyroscope readings through event handlers