

Tommy Trinh

Computer engineering student

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EXPERIENCE

The Coalition at Microsoft | Software Engineer Intern

May 2019 - August 2019

Created a website with **ASP.NET MVC** to allow administrators to easily manage branches, users, groups and files available on a **Perforce** source control server

- Developed new processes to complement general Perforce operations usable on **P4V**
- Secured the website using **HTTPS** and gated the different features using **windows authentication** and **security groups**
- Implemented controllers following **RESTful** principles

Intact Insurance | Java Developer Intern

January 2019 - April 2019

Actively participated in the development of new services that will be used to replace obsolete applications in production

- Developed services using the **Spring** Framework
- Modified or added new components according to the architects' requests
- Wrote **JUnit** tests and **SOAP** integration tests for several key services
- **Agile** development

Nuance Communications | Software Development Intern

May 2018 - August 2018

Developed a test platform on the web with **MongoDB**, **Express**, **React**, **Node** and **JavaScript**

- Developed an algorithm to test the impact of code changes on the behaviour of a specific feature
- Created an intuitive user interface with **React**
- Implemented a **RESTful API** with **Node** and **Express**
- Wrote scripts to parse information from csv, tsv and txt files
- Wrote yaml files for **GitLab CI/CD**

Polytechnique Montreal | Project: Creating a web application

January 2018 - April 2018

Developed a crossword and a racing game on the web with **Node**, **Angular**, **TypeScript**, **Three**, **Express** and **MongoDB**

- Applied the theoretical principles of quality assurance
- Developed the application with the **Agile** / **Scrum** principle
- Followed a **TDD** approach

Polytechnique Montreal | Project: Robot Design

January 2016 – April 2016

Built and programmed a robot to complete a track

- Welded components on a motherboard
- Diagnosed and solved hardware problems
- Programmed an **AVR** microcontroller in **C++**
- Debugged and increased the code efficiency

EDUCATION

Polytechnique Montreal

Bachelor of Computer Engineering

2016 – 2021

- 71/120 credits obtained

SKILLS

- C++ | Java | C# | JavaScript | VHDL
- MongoDB | SQL
- Git | Perforce
- Visual Studio | Eclipse | Vivado
- Docker | Kubernetes

OTHER EXPERIENCE

Polytechnique Montreal | Hackatown

January 2019

Created a mobile application prototype that would allow people to actively report potholes

- Used the **Expo** toolchain with **React-Native** to build a native mobile application
- Found an idea that relates to the smart city thematic

Polytechnique Montreal | LH Games

October 2018

Designed an artificial intelligence to complete a "battle royal" scenario

- Implemented an **A*** search algorithm
- Used **C#** as the principal programming language

Project | Hand-wired mechanical keyboard 2018

Built a matrix circuit and program a microcontroller

- Welded several electrical components to create a matrix circuit
- Programmed a **Teensy 2.0** microcontroller with the **QMK** firmware

Polytechnique Montreal | LH Games

October 2017

Designed an artificial intelligence to complete a "battle royal" scenario

- Implemented an **A*** search algorithm
- Learned **Python** as a programming language

Interest and hobbies

Mechanical keyboard

Computer hardware

Audio equipment