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 yml files for **GitLab CI/CD**

Polytechnique Montreal | Distributed system on FPGA
September 2019 – December 2019

Developed a distributed system on **FPGA** using the concept of **distributed registers** in order to validate information provided by users

- Implemented a communication and synchronization system with the **ZeroMQ** library
- Implemented a RESTful server in C ++ with the **Pistache** library
- Developed a PC application with **PyQt** to access the **SQLite** database and display the server logs
- Developed an **Android** mobile application in **Kotlin**

EDUCATION

Polytechnique Montreal
Bachelor of Computer Engineering
2016 – 2021

- 84/120 credits obtained

SKILLS

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

OTHER EXPERIENCE

Polytechnique Montreal | 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 | 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

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

Interest and hobbies

Mechanical keyboard
Computer hardware
Audio equipment