# Tommy Trinh

Computer engineering student

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## SUMMARY

- Experience developing web applications on MEAN and MERN stack
- Knowledge in Java and C++ object-oriented programming
- Good experience in teamwork
- Good knowledge of the main operating systems on the market

## GENERAL EDUCATION

**Bachelor of Computer Engineering**

Polytechnique Montréal 2016 –…

- 59/120 credits obtained

## RELEVANT EXPERIENCES IN COMPUTER ENGINEERING

**Software development intern, Nuance Communications – 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 a specific feature
- Created an intuitive user interface with React
- Implemented a REST API with Node and Express

**Integrative Project 2: Creating a web application – 2018**

***Develop 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 (Test-driven development) approach

**LH Games: AI Challenge – 2017**

***Design an artificial intelligence to complete a "battle royal" scenario***

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

**Microsoft College Code Competition – 2017**

***Coding competition organized by Microsoft***

- Solved several problems in a limited period
- Implemented and created algorithms to complete the scenarios

**McGameJam 2017 – 2017**

***Create a game prototype in 48 hours around the theme of "simulation"***

- Quick learning of Unity
- Found a concept that respects the theme
- Used C# to implement different parts of the game

**Integrative Project 1: Robot Design – 2016**

***Build and program a robot to complete a track***

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

## OTHER EXPERIENCES IN COMPUTER ENGINEERING

**Personal project: Hand-wired mechanical keyboard – 2018**
*Build a matrix circuit and program a microcontroller*
- Welded several electrical components to create a matrix circuit
- Programmed a Teensy 2.0 microcontroller (Atmega32U4) to emulate a keyboard

## OTHER EXPERIENCES

**Floor Clerk, Pharmaprix 2016 - 2017**
- Provided product information in both official languages
- Managed the quantity of products available in the store
- Managed and resolve customer complaints
- Respected and applied safety standards

## SOFTWARE AND PROGRAMMING LANGUAGES

| Langages | Others | Software |
|---|---|---|
| • C/C++ | • React | • Visual Studio 2017 |
| • Java | • Angular | • Git |
| • JavaScript | • Bootstrap | • Eclipse |
| • TypeScript | • Node | • Arduino |
| • HTML | • Express | • Microsoft Office Suite |
| • C# | • MongoDB | • Vivado |
| • Python | • Mocha | • Active-HDL |
| | • Chai | • Docker |

## LANGUAGES

Excellent knowledge in French and English

## INTEREST AND HOBBIES

Computer hardware
Mechanical keyboard
Audio equipment
Badminton