

EDUCATION

Bachelor of Engineering (Honours Electrical, Minor Software Engineering)

Sept. 2014 – May 2018

McGill University, Montreal, QC

- GPA: 4.0
- Dean's Honour List

WORK EXPERIENCE

Amazon Software Development Engineer Intern (FLASH USL-C Team)

Jun. 2017 – Aug. 2017

Vancouver, BC

- Added support for "group by" clauses in an SQL-like language used to query financial ledger data in **DynamoDB** and **S3**.
- Parallelized the above queries by using **MapReduce** with the Apache **Spark** library.
- Created behaviour-driven unit tests using the **Mockito** and **Google Guice** libraries.

Tactio Health Group Digital Health Software Developer Intern (Cloud Team)

May 2016 – Aug. 2016

Montreal, QC

- Developed a **PHP** testing framework covering **60 %** of the back-end API, leading to increased bug detection before deployment.
- Created a **PHP** fake data generator with daily **Cron** jobs and a producer-consumer queue in **MySQL**, allowing for more realistic simulation of patients with various medical conditions.

JNPSoft Java Developer

May 2015 – Aug. 2015

Montreal, QC

- Made importing of car parts data from Excel to a **SQL** database over **300 times** faster by implementing a bulk import in **Java**.
- Improved the GUI of the company's main program, PartCat, by implementing the **MVP** architectural pattern.

PROJECTS

TLDR News Co-founder, Lead Developer

Jan. 2017 – Present

Montreal, QC

- Designed and developed an **iOS** and **Android** service that provides personalized summaries of the latest news.
- Created **Java** Tomcat servlets on Amazon **Elastic Beanstalk** to periodically extract articles and output summaries in **JSON**.

Prometheus AI Honours Thesis

Jan. 2017 – Dec. 2017

Montreal, QC

- Created the Expert System and Knowledge Node Network **Java** layers of Prometheus, whose goal is to control multiple robots.
- Supervised and guided two volunteers in the lab over the summer to help expand the functionality of the system.

ECSE 211 Robot Competition Project Manager, Java Developer

Jan. 2015 – Apr. 2015

Montreal, QC

- Designed an autonomous robot with ultrasonic and light sensors capable of navigating a map and launching balls at targets.
- Implemented obstacle avoidance, moving-average, and differential filtering algorithms in **Java**.

TECHNICAL SKILLS

Languages: Java, Python, PHP, C, Swift, Objective-C, Arduino, VHDL, SQL, MIPS Assembly, LaTeX

IDEs & Editors: Eclipse, Android Studio, IntelliJ IDEA, Visual Studio, Xcode, Sublime Text, vim, Arduino, IDLE

Databases: MySQL, DynamoDB, Firebase, MS SQL Server, MS Access

Operating Systems: Windows, macOS, Ubuntu, CentOS

AWARDS & SCHOLARSHIPS

Collins Memorial Scholarships	2017	NSERC Experience Award	2016	Ambrose & Woodyatt Scholarships	2015
Mendel Family Scholarships	2016	Mary Gilsig Scholarship	2015, 2016	J. W. McConnell Scholarship	2014