

MICHAEL FRANCIS

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RELEVANT EXPERIENCE

IBM Canada (1 year, 6 months)

Software Developer, IBM Cloud & Cognitive Software (Co-op)

Markham, ON

May 2020 - August 2020

- Did more stuff on Analyzer team
- and more things

Software Developer, IBM Analytics (Student on Call)

September 2019 - April 2020

- Co-developed and implemented the back-end system for the registration of internal events, using Node.JS and Db2.
- Did stuff on Analyzer team
- and other things

Back-End Cloud Developer, IBM Cloud & Cognitive Software (Co-op)

May 2019 - August 2019

- Increased productivity across 5 teams by 13%: Automated security scans via a Jenkins pipeline, relieving the task from the 5 teams who manually ran these scans.
- Increased support efficiency by 20%: Created various time-saving scripts for both internal and external use. Designed and implemented a more efficient system for reporting customer issues.
- Reduced security vulnerabilities by 72%: Added security measures within the response headers of Watson Studio's Web-UI installation package (v2.0.1).
- Increased the testing capabilities of installs by 100%: Combined Robot Framework-based automation with Jenkins pipelines to automate the testing of web-based installations.

High School Intern, IBM Cloud & Cognitive Software

July 2018 - August 2018

- Optimized and tested the install of IBM's Data Science Experience Local.
- Created documentation to help future Cloud Private interns get started at IBM more efficiently.

McMaster Quantum Society

Founder, President (nonprofit)

Hamilton, ON

September 2019 - Present

- Continuously giving students the platform to learn the necessary skills to help accelerate the growth of quantum computing technology.
- Working towards a strong relationship between McMaster University and the world of quantum computing.

SKILLS

Technical Skills:	Python, Swift, Bash, Git & Github, Markdown, Jenkins, Docker, PowerPoint
LinkedIn Certified:	Python, PowerPoint
Soft Skills:	Goal-oriented collaborator, committed and enthusiastic.
Endorsed Skills:	Over 80 total LinkedIn endorsements for Leadership, Creative Problem
Misc:	Solving, Public Speaking, Python, Teaching, Communication, and more.

EDUCATION

McMaster University

B.Eng. Materials Engineering, Data Analytics & Computational Materials

Hamilton, ON

Fall 2018 - Winter 2023

Minor in Innovation

A partnership between the Faculty of Engineering and the DeGroote School of Business, the minor in innovation allows students develop innovation and business literacy and the skills to create their own enterprise.

Relevant Courses:

Electrical Circuits and Power

Fundamentals of electromechanical energy conversion. Motors and generators, transformers, single and polyphase power circuits, synchronous and induction machines, power measurements. *GPA: X.Y/4.0* - Winter 2020

Lean Startup

Introduction to lean methodologies of building a successful start-up business, including market validation, analysing market potential for start-up ideas, establishing a business model and failing fast. Students will learn how to test business ideas and hypotheses with customers and stakeholders. *GPA: X.Y/4.0* - Winter 2020

Engineering Computation

Development, analysis, and implementation of algorithms in Python. Design and testing of computer programs. *GPA: 4.0/4.0* - Spring 2019

Innovation: The World of Entrepreneurship

Study of the fundamentals of entrepreneurship. Analysis of the strategies for growing a scalable business. *GPA: 3.7/4.0* - Spring 2019

PROJECTS

Course Lead McMaster Engineering Society

Lecturer for Python programming to first-year engineering students, preparing them for midterms and exams.

Hackathons Python 3, Bash, IBM Cloud (Bluemix), AutoDesk Inventor, PowerPoint

DeltaHacks VI, IBM's North America Intern Hackathon 2018, DeltaHacks V, McMaster Designathon 2019, and more. Creative Lead behind a reusable EpiPen and a Google Home app to help Canadians save money.

AWARDS AND CERTIFICATIONS

Swift 5 Essential Training

Development, analysis, and implementation of algorithms in Swift 5. Design and testing of computer programs. [LinkedIn.com](#)
January 2020

Quantum Conversations for Business

Demonstrates foundational knowledge in quantum computing in the context of potential industry applications, the programs and services offered by IBM Q, and the core concepts of quantum computing technology. [IBM](#)
December 2019

Master Confident Presentations

Study of the difference between giving a presentation and delivering a confident and engaging talk that audiences love. Analysis of practical techniques that maximize presentation effectiveness such as calming pre-talk nerves, proper body language, effective openers, time management, and powerful closings. [LinkedIn.com](#)
March 2019

Overcoming Procrastination

Study of how to separate procrastination from other behaviors and identification of the reasons behind procrastination. Analysis of strategies for addressing common reasons for procrastination. [LinkedIn.com](#)
February 2019

Teaching Techniques: Creating Effective Learning Assessments

Study of the three sides of learning assessments, Bloom's taxonomy and Kirkpatrick's Four Levels of Evaluation, and different assessment formats. [LinkedIn.com](#)
February 2019

Valedictorian Award

Awarded to the valedictorian of the graduating class. Received 90% of the votes in a class of over 300 students. [Cardinal Ambrozic C.S.S.](#)
June 2018

Fr. Michael J. McGivney Award

Awarded to the graduating student who exemplifies strong leadership skills, guiding others towards improvement. [Knights of Columbus](#)
June 2018