# Michael Kurdyla

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## Education

Queen's University                                                                          September 2017 - Present
BASc. Software Engineering
Relevant Coursework: Data Structures, Algorithms, Discrete Mathematics, Operating Systems, Object Oriented
Programming, Software Development, Probability and Random Processes, Linear Algebra

## Experience

Bank of Canada, Ottawa, ON                                                                          May – August 2019
Business Analyst, Cyber Security
- Mapped the Bank's cyber security posture to the MITRE ATT&CK framework by meeting with teams and reading documentation to increase management's overall understanding of capabilities and gaps.
- Created scripts to convert Excel files of MITRE ATT&CK layouts to JSON files using python to facilitate employees documenting work in accordance with the MITRE ATT&CK framework.

## Projects

Multiplayer Stock Simulator, Software Development
- Using C++, created a backend interface using Windows sockets for communication between clients and the server, with multithreading to allow for multiple connections to the server.
- Maintained a git repository with teammates and peer reviewed code before merging with the master branch.

## Activities

Merlin Neurotech, Technical Lead                                                            September 2019 – Present
- Developing the backend API that integrates with our brain-computer interface device, the 2016 Muse, and outputs an object that can then be interacted with, all written in python.
- Created functionality to save data sets when members of the team use the BCIs and can now use non-real time data sets for testing.
- Leveraged weekly sprint goals and team members strengths to accomplish tasks as a team during heavy course load periods, resulting in significant progress since the formation of the team.

IT Operations member, Engineering Society                                                  September 2019 – Present
- Currently using Ruby on Rails to maintain Queen's Engineering Society's websites hosted on our servers.
- Created instances of WordPress sites for student body teams to use and interact with.

Financial Treasurer, ECE Executive team                                                    September 2019 – Present
- Maintain and oversee all major budgeting for the Electrical and Computer Engineering Executive Team.
- With a budget of $300 to begin the year, I've been able to triple our starting capital through profit producing initiatives and have projected an end of year surplus of $2000+.

Teaching Assistant, Introduction to Programming for Engineers                               September 2018 – Present
- Led a class of 100+ students through first year programming in C and MATLAB.
- Conducted a laboratory for first year students to work and learn weekly content.
- Tutored students in programming in one-on-one and many-on-one sessions.

## Technical Skills

- Python
- C++, C
- Java
- Assembly
- MATLAB
- Git
- Javascript, HTML, CSS
- Windows, Linux