

# Jacob Gordon

CANDIDATE FOR BACHELORS OF ENGINEERING · SOFTWARE ENGINEERING

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## Summary

- Languages: **Python, Java, C, C++, JavaScript**, Go, Bash, PowerShell, SQL, R, Octave, Verilog
- Tools: **TensorFlow, Jupyter**, Unix/Linux, Git, SVN, Agile/DevOps Methodologies, Microsoft Azure, Arduino,  $\LaTeX$

## Education

### McMaster University

Hamilton, Canada

BACHELORS OF ENGINEERING IN SOFTWARE ENGINEERING CO-OP

May 2016 - Apr. 2021

## Work Experience

### Information Security Analyst

Hamilton, Canada

ARCELORMITTAL DOFASCO

May 2018 - Sep. 2018

- Advised the Global ArcelorMittal InfoSec team on how to improve security policies' alignment with various global standards and regulations, helping to protect 200,000 employees and 68.67 billion USD of revenue
- Managed SIEM, Firewall, IPS in order to monitor and control internet traffic and protect production systems
- Researched and implemented secure software development training for in-house development team
- Performed application security investigations following agile sprints
- Automated active directory functions with suite of powershell scripts to increase team efficiency

### Computing and Software Department Ambassador

Hamilton, Canada

McMASTER UNIVERSITY

Oct. 2018 - Present

- Responsible for attending recruitment events to share the experience and benefits of McMaster's Software Engineering program
- Made use of communication and interpersonal skills to answer student's and parent's questions and concerns about the Software Engineering program, and student life at McMaster University

## Extracurricular Experience

### Software Project Manager

Hamilton, Canada

McMASTER ARTIFICIAL INTELLIGENCE SOCIETY

Sep. 2018 - Present

- Responsible for organizing and leading all Mac AI project teams (Currently: a Chess AI, a path-finding AI for a Mars Rover, and Kaggle competitions)
- In charge of leading and mentoring 80 members in software development, with members of various skill levels and academic backgrounds
- Taught lectures on machine learning concepts, and programming frameworks ( TensorFlow, Scikit-Learn)
- Assisted in development of introductory artificial intelligence course at McMaster University

### Artificial Intelligence / Machine Learning Panel Speaker

Hamilton, Canada

REALTORS ASSOCIATION OF HAMILTON-BURLINGTON

September 25, 2018

- Member of a panel to discuss the applications for artificial intelligence, machine learning, and data science in the real estate world
- Tasked with explaining AI basics, providing resources, and running a workshop to further explain AI technologies in a more hands-on manner
- <https://www.rahb.ca/2018/08/pro-dev-speakers-2018/>

## Projects

### PromEthereus | "Best Pitch" Winner - Hack The Valley

University of Toronto

[HTTPS://GITHUB.COM/JZAR/HTVII/](https://github.com/JZAR/HTVII/)

- TensorFlow, Jupyter, Python3, NodeJS, Microsoft Azure, pandas, numpy
- Developed a neural network that predicts the price of ethereum
- Made use of historical data, as well as real-time sentiment analysis of ethereum community via natural language processing on tweets from verified users tweeting #ethereum
- Practiced data science concepts during feature selection and data preprocessing.

### SeeingIsBusLeaving | "Sustainable City Challenge" Winner - uOttHack

University of Ottawa

[HTTPS://GITHUB.COM/DCXIA/SEEINGISBUSLEAVING](https://github.com/DCXIA/SEEINGISBUSLEAVING)

- Arduino, C++ , Autodesk Inventor
- Real-time map of city bus locations displayed on a 3D printed map of the bus route, with LEDS marking the bus location, aimed to increase use and satisfaction with public transit
- POC tested using Bluetooth instead of GSM module to communicate with back-end, relaying when busses pass a stop
- Designed to be compact, scalable, use little power, and to erase the annoyance of inaccurate bus scheduling