

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

BACHELORS OF ENGINEERING IN **SOFTWARE ENGINEERING CO-OP**

Hamilton, Canada

May. 2016 - Apr. 2021

Work Experience

Information Security Analyst

ARCELORMITTAL DOFASCO

Hamilton, Canada

May 2018 - Sep. 2018

- Application Security, Networking, Unix/Linux
- 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

McMASTER UNIVERSITY

Hamilton, Canada

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

McMASTER ARTIFICIAL INTELLIGENCE SOCIETY

Hamilton, Canada

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

REALTORS ASSOCIATION OF HAMILTON-BURLINGTON

Hamilton, Canada

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

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

University of Toronto

- 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

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

University of Ottawa

- 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

