Hudson **Ash**

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Work Experience

Software Engineering Intern (integrate.ai)
Toronto, ON
May 2019 – Present

- Developed an identity synchronization program using Golang, Terraform, Google APIs, and LDAP
- Researched artificial intelligence capabilities of competing companies for the VP of Marketing
- Designed an alarm to alert AWS users if a cluster terminated with an error using AWS and Terraform
- Taught a reinforcement learning lecture with the Head of Machine Learning

Data Science Infrastructure Intern (Capital One)
Toronto, ON
Jan 2018 – Apr 2018

- Developed a service to monitor the input of all Canadian production models to alert of any sudden changes using Python and Flask
- Integrated model to predict the next table upload to alert subscribers of unexpected data delays using Python and SKLearn

Data Science Consultant Intern (PwC)
Toronto, ON
Jan 2017 – Apr 2017

- Built Qlik dashboards for departments containing ~4,000 employees for performance evaluations. Increased database reading speed 40x over through caching using Python
- Maintained Qlik dashboard for client's financial department containing over 20 distinct data sources

Data Analyst (Gowling WLG)
Ottawa, ON
Feb 2016 – Feb 2018

- Applied basic statistical analysis on data points and presented long-term changes in the Canadian data market
- Created database and dashboard of ~1.75 million trademark entries from XML data

Skills

Programming Languages: Python, Golang, R, SQL, Terraform
Programming Skills: Infrastructure Design, Microservices, Git & Gitflow, Testing, AWS
Business-Related Skills: Market research, Automation, Clear communication, Presentation creation and delivery
Interests: Hot Sauce, EDM, Meditation, Fitness, Basketball, Hockey, Financial Independence

Projects

Applying Reinforcement Learning on Synthetic Website Traffic
Python
CREATED SYNTHETIC WEBSITE TRAFFIC AND APPLIED REINFORCEMENT LEARNING TO OPTIMIZE OFFERS.
github.com/hudsonash

Sonos Timer
Python
DEVELOPED A SCRIPT USING SONOS APIS AND PYTHON TO QUEUE AND PLAY SONOS AFTER N MINUTES
github.com/hudsonash

Education

University of Waterloo (Mathematics)
Waterloo, ON
SPECIALIZATION IN STATISTICS
Sept 2014 – Dec 2019

Wilfrid Laurier University (Business Administration)
Waterloo, ON
SPECIALIZATION IN MARKETING
Sept 2014 – Dec 2019

Extras!

Dec 2018	**Marketing Plan Pitch Winner**, Marketing campaign pitch to an accounting company in London
Sept 2018	**Head Orientation Leader**, Lead my sub-section of leaders and frosh for a fun-filled week!
May 2017	**DataFest Winner**, Won a hackathon through the exploration Expedia data + prize money
Nov 2016	**IKEA Competition Finalist**, Second place in IKEA's sustainability case competition
Nov 2016 +	**Hockey Analytics**, Classified NHL players, predicting the usefulness of timeouts, and more