Amos Hebb

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EDUCATION

University of Toronto

Toronto, Ontario

Master of Applied Science in Computer Engineering (In Progress)

Sep 2022 - Sep 2024

Royal Military College

Kingston, Ontario

Bachelor of Engineering in Computer Engineering

Aug 2015 - May 2019

EXPERIENCE

Senior Consultant
Deloitte - OmniaAI

Dec 2021 - Sep 2022

Toronto, Ontario

• Senior Dev - Health Canada Proof of Vax "Issuer in a Box" - with 6 Jr Devs maintained and expanded functionality of certificate generator API. (Node, TypeScript)

- Data Engineering IMCO Cyber Dashboard (SQL, Python)
- Data Engineering PSPC Real Property Optimization (Gurobi, Python)

Data Scientist

Jul 2019 - Dec 2021

HSBC Global Banking & Markets

Toronto, Ontario

- Regressions on PB Scale Tabuar Data (PySpark, Python)
- Chained Binary Classifiers and SHAP (PySpark, Python)
- Graph Based Record Linkage (Spark, GraphX)
- Lead Internship to develop Named Entity Recognition model (SparkNLP)
- Refactored Excel + Python ETL pipeline to PB Scale (Hadoop, Spark, Scala)

Aerospace Engineering Officer

Jun 2015 - Jul 2019

Royal Canadian Air Force

Greenwood, Nova Scotia

- Concurrent with role as Officer Cadet at Royal Military College
- Deployment to far north on Operation Nanook 2018 with 405 Long Range Patrol Squadron
- 1st line maintenance training with 14 Air Maintenance Squadron
- Search and Rescue training with 413 Transport and Rescue Squadron

Projects

Belief-Reward Radar Policies | Reinforcement Learning, Julia

Dec 2023 - May 2024

- $\bullet\,$ Developed POMDPs simulation of a radar system
- Implemented particle filter multi-target tracking algorithm
- Developed and trained Belief-MCTS solver for POMDPs
- Abstract accepted to IEEE RadarConf24

RL for Multi-task Radar Scheduling | Gym, Python

Sep 2023 - Dec 2023

- Developed Gymnasium simulation of task queue system
- Refactored MATLAB algorithms to Python
- Trained basic RL algorithms on gym environment

Depth from Mono Capstone | ROS, OpenCV, SLAM

Aug 2018 - Jun 2019

- Capstone project for undergrad
- ROS based turtlebot
- Trained CNN to estimate LIDAR depth from camera

TECHNICAL SKILLS

Bilingual: Native English, CBC French

Programming: Python, Julia, TypeScript, and toy with Go, Rust

Robots: ROS, ArduPilot, Donkey Car

Cameras: Photographer, First Job was Photo Lab Tech