

Anthony Weston

2A Software Engineering

anthonyelliotweston@gmail.com

www.linkedin.com/in/aeweston

aeweston98



Technical Skills

Languages	Concepts	Technologies	Tools
C++, Python, MATLAB, C	Object Oriented Design, Multi-threading, Functional Programming	NFC, Windows Credential Provider	sklearn, TensorFlow, numpy, Git, Visual Studio

Work Experience

Software Developer - Nymi Inc. (May 2017 - Aug. 2017)

- Developed Lock Control enterprise authentication and productivity solution, improving rate of successful logins from 82% to 95%.
- Led development of NFC identification and intent for automatic login, a core application feature in custom Windows Credential Provider.
- Redesigned architecture of C++ interface between Nymi Band and common backend enabling many-to-many login on enterprise computers.

Numerical Modelling Student - Baird & Associates (Sept. 2015 - Jun. 2016)

- Optimized hydrodynamic numerical models improving accuracy of key performance indicators by up to 60%.
- Performed statistical analysis and data visualization using MATLAB and Python.

Projects

Natural Language to SQL Query Tool

- Adapted Stanford NLTK library to convert plaintext questions to SQL queries.
- Leveraged knowledge graph to discern word relationships in plaintext and suggest related queries.

Monte Carlo Model

- Implemented Nagel-Schreckenberg model which simulates traffic flow using a random probability element.

Embedded Systems, Waterloo SpaceX Hyperloop Competition Team

- Reduced latency by 80% in MQTT service used to process and transmit sensor data.

Independent Coursework

Cryptography I by Stanford University (Completed)

- Analyzed significant cryptography systems and algorithms such as AES, RSA and SHA-256.

Intro to Machine Learning by Udacity (Completed)

- Explored and applied important machine learning algorithms including SVMs, random forests and k-means clustering.

Neural Networks for Machine Learning by University of Toronto (In Progress)

- Learned practical strategies to efficiently employ feed-forward and recurrent neural networks.