

EDUCATION

Bachelor of Engineering, Electrical

Spring 2018

McMaster University, Hamilton, ON

- (2018) Dean's Honour List
- (2018) Second Place, Electrical Engineering for final-year engineering project

EXPERIENCE

Computer Vision & Deep Learning Software Developer

Dec 2018 - present

Reform Reality Inc., Toronto, ON

- Assisting in the development of a computer vision workflow with focus on augmented-reality.
- Assisting in the startup's patent process.
- Part-time / volunteer position.

Distribution Asset Management Intern

May 2016 - Aug 2017

Hydro One Networks Inc., Toronto, ON

- Conducted power flow studies for renewable generation connections on the distribution system.
- Prepared technical reports, scopes of work and budget distribution forms for projects.
- Developed an Excel tool in VBA to speed up document updates to the 'List of Station Capacity.' The tool allowed this particular document to be updated in a fraction of the original time by automating and streamlining the original process.

SKILLS

Programming Languages

- Swift (iOS)
- JavaScript (ES6, TypeScript)
- Python
- C++

Frameworks / Libraries / Services

- React, Node, Express, MongoDB
- NumPy, PIL, OpenCV, Keras, Flask
- Heroku, AWS (S3)

Miscellaneous

- API development (Flask and Express.js)
- Backend deployment with Heroku
- Version control with Github/git
- High proficiency with UI/UX design
- Expert in Adobe Photoshop, Illustrator
- Comfortable working with command line tools
- Familiar with TCP/IP protocols through networking courses

PROJECTS

NAV X - Augmented-reality based GPS navigation

Python, OpenCV

GIFME - Snapchat companion application for GIF generation

iOS, Flask back-end

CryptoTracker - Monitor prices of various cryptocurrencies

iOS Application

Keras Constructor - Visually design models for deep learning

React Application

Please visit my portfolio for details: tylerpharand.github.io