

# SEAN SOMOGYVARI



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Seansomogyvari.ca

## SKILLS

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### Software:

- MATLAB
- Python
- C/C++
- R
- LaTeX

### Soft Skills

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- Problem Solving
- Time Management
- Interpersonal Communication
- Collaboration and Active Listener
- Strong Observational Skills

## PROJECTS

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### Convolutional Neural Network for Classifying Vehicle Make and Model

- Convolutional neural network in python using Keras with TensorFlow backend for classifying images of vehicles in the Stanford Cars Dataset.

### EYESPY eye tracking robot

- Designed and assembled an autonomous eye-tracking robot using two Raspberry Pis and three TI microcontrollers.

### Comparison of Supervised/Unsupervised Analysis of the SDSS

- In depth analysis of the Sloan Digital Sky Survey (2014) including a comparison of model-based clustering, mixture discriminant analysis and a cross validated neural network in R.

## EDUCATION

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### Master of Engineering, Electrical and Computer Engineering

McMaster University, Hamilton ON

Feb 2019

- Specialization in machine learning and data science theory related to electrical and computer engineering.

### Bachelor of Engineering, Engineering Physics

McMaster University, Hamilton ON

May 2016

## EXPERIENCE

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### Python Developer

July 2019 - Present

ATEQ Canada Inc., Mississauga ON

Spearheaded the development of a complete automation system for the purpose of calibrating ATEQ industrial pressure/flow/leak testing equipment.

- Development in Python to control embedded systems used to automate a series of regulators and valves for the purpose of calibrating a wide series of industrial pressure instruments.
- Design and production of a PCB containing solid-state devices for controlling the regulators and valves, and housing appropriate sensors.
- Developed a user-friendly GUI allowing easy operation of the system using PyQt5.

### Machine Learning Developer Volunteer

May 2019 – July 2019

Prepr, Mississauga ON

- Research in cutting edge NLP methodologies for the purpose of developing an AI for auto-grading Prepr assignments/challenges.
- Development of collaborative filtering for recommending Prepr challenges based on skills.

### Technical Sales & Project Coordinator

May 2017 - Dec 2017

M Con Pipes and Products, Ayr ON

- Communicated with contract engineers regarding projects
- Analyzed project drawings and provided accurate quotes
- Designed custom projects using Autodesk/MHpro and placed into production based on specifications

## FURTHER EDUCATION

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### Certificate in TensorFlow for Deep Learning in Python

Udemy

April 2019

- DNN, CNN, RNN, and Reinforcement Learning in Python using TensorFlow

### Deep Learning Specialization

deeplearning.ai, Coursera 'Specialization'

Sept 2019

- Five course specialization covering convolutional neural networks, sequence models, hyperparameter tuning, and structuring machine learning projects.