

RYAN RAZANI

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EDUCATION

McGill University, Montreal, QC Masters in Electrical and Computer Engineering CGPA: 3.6/4.0	2014-2017
Ryerson University , Toronto, ON Bachelors in Electrical Computer Engineering	2008-2014

CARRIER OBJECTIVE

To work for an self-driving technology company which provides me the opportunity to improve my skills and knowledge to grow along with the organization objective

PROJECTS

Speech Enhancement using a reduced complexity MFCC-based deep neural network
Image Classification on Imagenet, MNIST and Cifar-10 in Pytorch, Keras
Character-level language model for text generation in python, Tensorflow
Implementing object detection technique on a car detection dataset, Python

TECHNICAL STRENGTHS

Programming & Software	Python, NumPy, TensorFlow, Keras, Pytorch, Theano, Matlab, C, Java, C++, Github, Git, ROS, Linux, Simulink, Unity
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WORK EXPERIENCE

Huawei Noah's Ark Lab, Toronto, ON <i>Perception, ML Research Engineer</i>	May 2019 - Present
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- Worked on 3D Lidar point cloud/image segmentation for perception system
- Familiar with 3D Lidar point cloud/image object detection
- Collaborated on self-driving perception pipeline and deployed it on an Huawei's autonomous vehicle
- Collaborated on a point cloud classification conference paper (under review)
- Preparing scientific demonstration for the research results (TF)

Huawei Noah's Ark Lab, Montreal, QC <i>Machine Learning Research Engineer</i>	Sep 2018 - Mar 2019
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- Trained MobileNet and quantized VGG-like model and deployed on an Android device (Keras, TF)
- Conducted research on Quantization techniques of model compression for CNN
- Published scientific demonstration for the research results as arXiv and in process of submitting to a top-tier computer vision conference
- Filed a patent and delivered the project to china HQ to be deployed in the product

WealthTab Inc., Toronto, ON <i>Machine Learning Developer</i>	Mar 2018 - May 2018
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- Built a NLP (Natural Language Processing) Named Entity Recognizer to extract information from various insurance policy documents in Python

Nuance Communications Inc., Montreal, QC

Jan 2017 - Aug 2017

Machine Learning Developer

- Natural Language Understanding, Directed Dialogs grammar development in VoiceXML
- Voice Recognition system optimization and data analysis
- Predictive model analysis, including preprocessing for classification task, SciKit, Theano
- Improved Voice Biometrics Fraudster detection tuning tool in Python

Imprivata Inc., Lexington, MA, US

Summer 2016

RD Intern

- Investigated real-time locating systems, Time of Flight technique for secure walkaway
- Implemented Bluetooth Low Energy CSRMESH network interacting with the Android app
- Designed and developed wheeled device kinetic powered BLE radio prototype

McGill University, Montreal, QC*Webmaster:* McGill IEEE student branch committee

2016-2017

Grader: ECSE 322-Computer Engineering

2016-2016

Website Management Assistant

2015-2016

Grader: ECSE 305-Probability and Random Signals I

2015-2016

Research Assistant: Deep neural network for speech enhancement

2014-2017

Ryerson University

Summer 2013

Research Assistant

- Implemented Centralized Sparse Representation for Image Restoration and image de-noising

Celestica Inc., Toronto, ON

2011-2012

IT Business Operation Analyst

- Maintained Celestica IT Intranet page, created and published IT new
- Generated monthly headcount and effort summary report for IT monthly operating review
- Created Online ID Request Form, designed and developed the IT Business operations website
- Robot workshop at Ontario Science Centre (volunteering)

Private Tutor, Qualified Tutors, Active Learning Institute, Toronto, ON

2011-2012

- Tutored high school and university students in Math, Physics, Chemistry and Electronics

AWARDS

Achieved outstanding Team Award at Huawei, Montreal research lab

Dec 2018

Published a conference paper at IEEE, ISSPIT in Bilbao, Spain

Dec 2017

Winner of the most innovative hack, Imprivata

2016-2017

Dean's List, Ryerson University

2013-2014

The second winner of CCECE, IEEE HIC competition

2013-2014

Awarded two Bravo prizes from Celestica Inc.

2011-2012

First place award in consulting Engineering competition, Ryerson

2010-2011

The holder of world champion gold medal in Tai Chi, China

2002 & 2005

PERSONAL TRAITS

Problem solver, flexible, able to work in fast-paced environments and excellent time-management skills