

Ott.Peter.R@gmail.com 703-336-7082

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## **Bachelor of Science in Computer Science**

George Mason University, Honors College - 2017

Skills

Languages Machine Learning

Python Advanced Machine Learning Intermediate
Java Intermediate Linear Algebra Intermediate
JavaScript Novice Statistics Novice

**Environments** 

Libraries

JupyterIntermediateKerasAdvancedPyCharmNoviceTensorFlowIntermediateDockerIntermediatenp, pdAdvanced

Experience

# Machine Learning Engineer, February 2019 - Present Next Century, NextCentury.com

2019

Machine Learning data fusion research on MediFor Project Python, Docker

Associate Software Engineer, July 2013 - January 2019 Innovative Defense Technologies, IDTus.com

2018

Developed tools for stress testing distributed micro services and benchmarking performance

Docker, Apache Bench, JMeter

Continuous on-site support for customers

Architected and constructed a Continuous Integration pipeline for a customer through an iterative process

Jenkins, GitLab, Nexus, Jira, HipChat, Apache email

2017 SBIR proposal technical writer.

Efficient metadata search using machine learning

Python, LOPQ clustering algorithm

2016 Executed STIG security compliance tests

Rapid vulnerability discovery via machine learning fuzz test

Python, genetic algorithm

2015 Improved optical character recognition (OCR) from 30% to 70%

Java, Tesseract (OCR tool), statistical modeling

2014 Plotted vehicle locations on NASA's WorldWind

## Automated testing, unit testing and bug fixes

# Personal Projects

2013

## Kaggle, kaggle.com/ottpeterr

99%+ accurate MNIST digit classification

2D conv. net, Keras

Fraudulent purchase detection

Random forest, neural net, Keras

New York Taxi fare prediction

Dataset of 50,000,000 rows

Pneumonia detection using x-ray imagery

2D conv. net, image generation for training

## Raspberry Pi

Home surveillance camera Raspberry Pi with chat bot integration Python, Telegram (chat platform), on my GitHub Raspberry Pi 4-node cluster for Docker Swarm

#### Hobbies

#### **Home Automation**

Various Raspberry Pi's running home surveillance cameras, network wide adblocking, smart light control, presence detection, family location sharing and more!

#### **MX-5 Miatas**

Ask me about it!