

PETER  
OTT

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## Education

### Bachelor of Science in Computer Science

George Mason University, Honors College - 2017

## Qualifications

Languages	ML / AI	Libraries	Dev Envs.	CI Envs.
Python	Neural Nets	Keras	PyCharm	Docker
Java	Grad. Boost	Pandas	Jupyter NB	Git/GitLab
JavaScript	Rand. Forests	NumPy	IntelliJ	Jenkins
Swift	SVMs	SKLearn	Eclipse	Maven
Lisp	NLP	TensorFlow		NPM

## Professional Experience

2018

### Associate Software Engineer, 2013 - present

#### Innovative Defense Technologies, [IDTus.com](http://IDTus.com)

Member of successful CMMI level 3 audit team.

Developed tools for testing distributed micro services

Docker, Apache Bench, and JMeter.

Performed regular support at customer sites.

Architected and built a Continuous Integration pipeline

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

SBIR proposal technical writer.

2017

Metadata search tool using machine learning clustering

Python, LOPQ algorithm

Executed a STIG security compliance test.

2016

Rapid vulnerability discovery via ML fuzz test

Python, genetic algorithm

2015

Improved optical character recognition from 30% to 70%

Tesseract, statistical modeling

2014

Plotted vehicle locations on NASA's WorldWind.

2013

Automated testing, unit testing and bug fixes.

## Personal Projects

99% accurate digit classification by 2D convolutional network.

Fraud purchase detection by neural net and random forest.

Taxi fare prediction with dataset of 50,000,000 data rows.

Pneumonia detection by 2D conv. network and image generation.

Home surveillance camera Raspberry Pi with chat bot integration

Raspberry Pi 4-node cluster for Docker Swarm

Projects mentioned and more can be found at:  
[kaggle.com/ottpeterr](https://kaggle.com/ottpeterr) or [github.com/OttPeterR](https://github.com/OttPeterR)