

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

### Associate Software Engineer, July 2013 - January 2019

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

2018

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%

- Java, Tesseract, statistical modeling

2014

Plotted vehicle locations on NASA's WorldWind.

2013

Automated testing, unit testing and bug fixes.

## Personal Projects

99%+ accurate MNIST digit classification

- 2D conv. net, Keras, on Kaggle

Fraud credit card purchase detection

- Random forest, neural net, Keras, on Kaggle

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

Pneumonia detection

- 2D conv. net, image generation for training

Home surveillance camera Raspberry Pi with chat bot integration

- Python, Telegram (chat app), on my GitHub

Raspberry Pi 4-node cluster for Docker Swarm