PETER OTT

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OttPeterR.com
github.com/OttPeterR
kaggle.com/ottpeterr

Education

Bachelor of Science in Computer Science
George Mason University, Honors College, 2017

Skills

Languages
Python	Advanced
Java	Intermediate
JavaScript	Novice

Machine Learning
Machine Learning	Advanced
Linear Algebra	Intermediate
Statistics	Novice

Environments
Jupyter	Intermediate
PyCharm	Novice
Docker	Intermediate

Libraries
Keras	Advanced
TensorFlow	Intermediate
PyTorch	Intermediate

Experience

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

2019
Machine Learning data fusion research on MediFor Project
    Python, TensorFlow, Keras, Docker

Associate Software Engineer   **May 2017 - January 2019**
Innovative Defense Technologies, IDTus.com

2018
Developed tools for stress testing distributed micro services and benchmarking performance for scalable systems
    Docker, Apache Bench, JMeter
Continuous on-site support for customers
Architected and constructed a Continuous Integration pipeline for a customer
    Jenkins, GitLab, Nexus, Jira, HipChat, Apache email

2017
Technical writer for SBIR proposal
Efficient metadata clustering and search using machine learning
    Python, SQLite

Software Engineer Intern · **July 2013 - May 2017**
Innovative Defense Technologies, IDTus.com

2016 Executed STIG security compliance test to ensure that software had been hardened to cyber security threats
  Nessus, WireShark

2015 Rapid vulnerability discovery via machine learning fuzz testing
  Python, genetic algorithm

2014 Improved optical character recognition (OCR) from 30% to 70%
  Java, Tesseract (OCR tool), statistical modeling

2013 Plotted vehicle locations on NASA's WorldWind
Automated testing, unit testing and bug fixes, Code coverage reports
  Java, JUnit, ECLEmma

Personal Projects

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 w/ 12GB RAM
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 and Interests

Home Automation
Various Raspberry Pi's running home surveillance cameras, network wide ad-blocking, smart light control, presence detection, family location sharing and more!

MX-5 Miata
Ask me about it!