PETER OTT

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About Me

As an established machine learning practitioner and software developer, my aim is to apply artificial intelligence at the cutting edge and perpetually increase my expertise in the disciplines of machine learning; with the ultimate goal of becoming a leader in the field.

Education

MS in CS, Concentration in Machine Learning - In Progress
George Mason Univ. - College of Engineering and Computing

BS in CS - 2017
George Mason Univ. - Honors College - College of Engineering and Computing

Experience

Senior Data Scientist — **February 2020 - Present**
BTI 360
Neural network design and machine learning model engineering for predictive tasks, natural language processing applications, and information segmentation.
PyTorch and TensorFlow 2, deployment in SageMaker and Kubernetes

Machine Learning Engineer — **January 2019 - February 2020**
Next Century (presently acquired by CACI)
Research in machine learning data fusion for DARPA Media Forensics (MediFor) Program for the detection of deepfakes and other media manipulations
Model development and research in PyTorch and TensorFlow.

Associate Software Engineer and Intern — **July 2013 - January 2019**
Innovative Defense Technologies
Machine Learning powered intelligent storage, sorting, and deletion of image files based on relevancy and task importance in a space constrained system
Python, SQLite
Rapid discovery of system vulnerabilities via ML powered fuzz testing
Python, genetic fuzzing algorithm
Architected a cost-effective system for stress testing micro services
Docker, Apache Bench, JMeter, other stress testing tools
Improved optical character recognition (OCR) on low resolution imagery
Java, Tesseract (OCR tool), statistical modeling
Technical writer on SBIR proposal team

Skills

Environments
Jupyter
AWS SageMaker
Docker
PyCharm / VSCode

Machine Learning
Deep Learning
NLP
Reinforcement Learning

Frameworks
PyTorch
TensorFlow 2
MXNet

Hobbies

Robotics
Current Project: SpotMicro, a miniature version of Boston Dynamics' Spot robot
Raspberry Pi, ROS2, 3D printing, miscellaneous hobby electronics

Raspberry Pi
Home Assistant based home automation system
Light control, security system, presence tracking
Home surveillance camera with chat bot integration for notifications
Python, Telegram
Trakr - WiFi analytics gathering program
Python, SQLite

Home Automation via Home Assistant
Various Raspberry Pi's and other low power hardware hosting home security, surveillance cameras, network wide ad-blocking, smart light control, presence detection, family location sharing and more!

MX-5 Miata
Daily driver and project car. Ask me about it!