PETER OTT

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Education

George Mason University, Honors College
Computer Science, BS - May, 2017

Qualifications

US Citizen, Security Clearance Holder
Languages: Python, Java, JavaScript, Bash, Swift, Lisp, C, Haskell
Data Libraries: Keras, Pandas, NumPy, SKLearn, TensorFlow
Dev Environments: IntelliJ, PyCharm, Jupyter Notebook, Eclipse
Containers: Docker, Docker Swarm, Kubernetes
Build / Integration: Jenkins, Nexus, GitLab, Maven, npm

Professional Experience

Associate Software Engineer - 2013-present
Innovative Defense Technologies - IDTus.com

Year	
2018	Member of successful CMMI level 3 audit team. Developed tools for testing distributed micro services. Designed and built a Continuous Integration pipeline. SBIR proposal team member.
2017	Built an efficient metadata search tool using machine learning clustering. Executed a STIG test.
2016	Rapid vulnerability discovery via evolutionary computation fuzz test.
2015	Improved optical character recognition accuracy on low resolution images from 30% to 70% with ML techniques.
2014	Plotted vehicle locations on NASA 2D and 3D globe.
2013	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

Most projects mentioned can be found at:
kaggle.com/ottpeterr or: github.com/OttPeterR