PETER OTT

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Education

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

Qualifications

Secret Security Clearance Holder
Languages: Python, Java, MatLab, JavaScript, R, Lisp, C, Haskell
Data Libraries: Keras, Pandas, NumPy, SKLearn
Dev Environments: IntelliJ, Eclipse, Jupyter Notebook, PyCharm
Operating Systems: *nix, MacOS, Windows
Version Control: Git, Subversion
Build / Integration: Jenkins, Nexus, GitLab, Maven
Dev. / Collab.: Jira, Sharepoint, Bugzilla, Redmine

Professional Experience

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

2018. Member of successful CMMI level 3 audit team.
Developed tools for micro service monitoring and repair.
SBIR proposal team member.

2017. Machine learning clustering for optimized image metadata
search. Executed a STIG test.

2016. Network fuzz testing with evolutionary machine learning.

2015. Improved optical character recognition accuracy on low
resolution images from ~30% to ~70% with ML techniques.

2014. Plotted vehicle locations from SQL onto NASA's WorldWind
open-source 2D and 3D globe.

2013. JUnit testing and bug fixes.

Personal Projects

Fraud detection by neural net, random forest, and resampling
Digit classification (MNIST dataset) by convolutional network
Pneumonia detection by modified DarkNet
Other AI / ML notebooks and competitions: kaggle.com/ottpeterr
Home surveillance Raspberry Pi with chat bot integration
Raspberry Pi 4-node cluster for Docker
Other personal projects: github.com/OttPeterR