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 testing distributed micro services. SBIR proposal team member.
- 2017. Optimized search using image metadata via machine learning clustering. 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