

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, Lisp, C, Haskell
Data Libraries: Keras, Pandas, NumPy, SKLearn, TensorFlow
Dev Environments: IntelliJ, PyCharm, Jupyter Notebook, Eclipse
Version Control: Git, Subversion
Containers: Docker, Docker Swarm, Kubernetes
Build / Integration: Jenkins, Nexus, GitLab, Maven
Dev. / Collab.: Agile, 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.
Built a Continuous Integration pipeline.
SBIR proposal team member.
- 2017. Created an efficient metadata search tool using machine learning clustering. Executed a STIG test.
- 2016. Rapid vulnerability discovery via genetic algorithm 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

Fraud purchase detection by neural net and random forest.
99% accurate digit classification by 2D convolutional network.
Taxi fare prediction with dataset of 55,000,000 data rows.
Pneumonia detection by 2D conv. network and image generation.
Other AI / ML notebooks and competitions: kaggle.com/ottpeterr
Home surveillance camera Raspberry Pi with chat bot integration
Raspberry Pi 4-node cluster for Docker Swarm
Other personal projects: github.com/OttPeterR