

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

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
Other AI / ML notebooks and competitions: kaggle.com/ottpeter
Other personal projects: github.com/OttPeterR