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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 Security Technical Implementation Guide (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 machine learning 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

Home surveillance Raspberry Pi with chat bot integration via Telegram
Raspberry Pi 4-node cluster for Hadoop
Sentiment analysis chat bot via Telegram
Personal projects: github.com/OttPeterR
AI / ML notebooks and competitions: kaggle.com/ottpeterr

Volunteer Experience

Web Admin, Catholic Campus Ministry at GMU, 2014 - 2017

- 2016. Created a SquareSpace site. Recorded and edited weekly videos.
- 2014-15. Managed Joomla website using FTP, HTML, CSS, etc.