

Michael Louie

WORK EXPERIENCE

Software Engineer II (3/2018 - Present)	Verisign, Inc.	February 2017 – Present
Software Engineer I (2/2017 - 3/2018)	Reston, VA	
Consolidated Top-Level Domain, Infrastructure Services		

- Developing code dependency analysis reporting tool to notify engineers of project security vulnerabilities
- Optimizing Java CTLD batch processing reducing total financial bundle transactions by 25%
- Collaborating with customer service and GSA users to deliver DotGov domain management processes and features
- Leading virtualization initiative to integrate domain provisioning components into Docker containers
- Improving product development and testing process via automated user interface, protocol, and database fixtures

Software Engineer Associate	Lockheed Martin	June 2016 – February 2017
	Manassas, VA	

Acoustic Rapid COTS Insertion System Services

- Prototyped modern data visualization front-end UIs with JavaFX and D3 to enhance operator control and situational awareness over system processes and compute resource management
- Integrated open-source cluster management and scheduling software to support sonar applications

Software Engineer Intern	EMC Corporation, Data Domain	May 2015 – August 2015
	Durham, NC	

- Consolidated debugging Linux shell scripts for extending company-wide testing capabilities
- Benchmarked data storage modules to target system optimization efforts

SKILLS / LANGUAGES / TECHNOLOGIES

- Professional: Java, Bash Shell Scripting, Ansible, Docker Containers, Linux, Unix, HTML, SQL, Gradle, XML, JSON, YAML, Mesos, Marathon, Git, TeamCity, JIRA, Selenium, FitNesse
- Proficient: C, C++, C#, Python, Go, PHP, Amazon Web Services, Google Cloud Platform, Qt, Virtual Machines, Bootstrap, Material Design, JavaFX, Apache HTTP Server, Windows

PROJECTS

- Vulquery – dependency vulnerability comparison and suggestion utility and API using AngularJS, Python, SQLite
- Angena – genealogy program to record and visualize genealogical data to GEDCOM X standard using C++ and Qt
- OWASP-DC Parser – module for OWASP dependency check application to parse and compile vulnerability reports using Java, HTML/CSS, and XML
- Total War Framework – real-time strategy video game based on Unity Engine using C#

EDUCATION

B.S. in Computer Science	Virginia Polytechnic Institute and State University	May 2016
	Blacksburg, VA	

1st Place Faculty Choice Capstone, Virginia Tech Computer Science Undergraduate Research Symposium
“Neuroevolution of Augmenting Topologies and Machine Learning – Finite Solution Spaces”

- Developed, integrated, measured, and presented open-source NEAT implementation effects on training AI to play Connect Four utilizing Java and AWS EC2.