https://github.com/Michaelis105
http://www.linkedin.com/in/louiemichael
michaellouie.xyz:4

# Michael Louie

michael.louie10@gmail.com
540-645-1914
Reston, VA

## WORK EXPERIENCE

**Software Engineer I**          **Verisign, Inc.**          **February 27, 2017 – Present**
**Reston, VA**

**Consolidated Top-Level Domain, DotGov, DotName Infrastructure Services**
- Programming registrar domain provisioning systems and architecture for full software life cycles.
- Mitigating security risks with provisioning services by creating and integrating vulnerability detection tools.
- Reducing development time by writing automated user interface and database fixtures for continuous integration, testing, and deployment.

**Software Engineer Associate**          **Lockheed Martin**          **June 6, 2016 – February 3, 2017**
**Manassas, VA**

**Acoustic Rapid COTS Insertion System Services**
- Designed and implemented event-driven API in Java permitting engineering to develop sonar system manager tools with cluster management and scheduling software.
- Prototyped modern data visualization front-end UIs with JavaFX, AngularJS, and D3 to enhance operator control and situational awareness over system processes and compute resource management.
- RDT&E with Docker to containerize sonar applications for rapid deployment, security, and scalability in distributed systems.
- Conducted and delivered critical item testing as part of feasibility study to evaluate free open-source software capabilities as deliverable solutions to customer.

**Software Engineer Intern**          **EMC Corporation, Data Domain**          **May 26, 2015 – August 12, 2015**
**Durham, NC**
- Collaborated with the NFS team to develop multi-threaded implementations of NFSv4 to extend product storage functionality.
- Consolidated and enhanced team's debugging scripts for extending company-wide testing capabilities in production environment.
- Benchmarked data storage modules to target system optimization efforts.

**Software Engineer Intern**          **Naval Surface Warfare Center Dahlgren Division**          **June 2, 2014 – August 8, 2014**
**Dahlgren, VA**          **June 22, 2013 – August 16, 2013**
- Integrated host-based intrusion detection system with AEGIS fleet combat system enhancing operator cyber security capabilities.
- Designed future ship power control GUI for managing tactical laser weapons to ship energy generation/storage systems.

## SKILLS / LANGUAGES / TECHNOLOGIES
- C, C++, C#, Java, Python, Go, HTML, CSS, PHP, Bash Scripting, SQL, XML, JSON, YAML
- Amazon Web Services, Ansible, Docker Containers, Virtual Machines, Linux (Red Hat / CentOS), Unix, Windows, Qt, Bootstrap, Material Design, JavaFX, Gradle, Mesos, Marathon, Android, Git, TeamCity, Apache HTTP Server
- Virtualization, Automation, Design Patterns, Object-Oriented Design, Machine Learning, Data Structures, Problem Solving, Agile Development

## PROJECTS
- Angena – Genealogy Program: C++, Qt
- Vidngo – Video downloader: Go, GTK+3
- OWASP-DC-XMLP – Vulnerability report compiler: Java, HTML/CSS

## EDUCATION
**Blacksburg, VA**          **Virginia Polytechnic Institute and State University**          **August 2013 – May 2016**
- B.S. in Computer Science, May 2016

**1st Place Faculty Choice Capstone**, Virginia Tech Computer Science Undergraduate Research Symposium
"Neuroevolution of Augmenting Topologies and Machine Learning – Finite Solution Spaces"
- Developed, integrated, demonstrated, and measured open-source NEAT implementation effects on training AI to play Connect Four utilizing Java and AWS EC2.

Visit my website at michaellouie.xyz:4 for more information on me