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WORK EXPERIENCE

Verisign, Inc., Reston, VA, February 2017 – Present
Software Engineer I, Consolidated Top-Level Domain, DotGov
- Programming registrar domain provisioning systems and architecture for full software life cycles.
- Reducing security risks with provisioning services by creating and integrating vulnerability detection tools.
- Analyzing ICANN requirements to provide reliable, secure, and available provisioning services to registrars.

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

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

Naval Surface Warfare Center Dahlgren Division, Dahlgren, VA, June 2014 – August 2014, June 2013 – August 2013
Software Engineer Intern
- 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
- C, C++, C#, Java, Python, Go, HTML, CSS, JavaScript, PHP, Bash Scripting, SQL, XML, JSON, YAML
- AWS, Ansible, Docker, Virtual Machines, Linux (Red Hat / CentOS), Unix, Windows, Qt, Bootstrap, Material Design, JavaFX, Gradle, Mesos, Marathon, Android, Git
- Design Patterns, Data Structures, Problem Solving, Virtualization, Automation, Object-Oriented Design

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

EDUCATION
Virginia Polytechnic Institute and State University, Blacksburg, VA, 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.