

Mario L. Borroto





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TECHNICAL SKILLS

Skills: Python (Intermediate), Security Domain (Experienced), Linux (Experienced)

PROFESSIONAL EXPERIENCE

-  Boeing Inc., Seattle, WA Aug. 2021 - Present
Product Security Engineer, Commercial Airplanes
- Lead penetration testing and vulnerability assessments for the cybersecurity of commercial aircrafts
 - Developed ARINC 429 fuzzer in Python using Scapy
 - Perform web application testing for various aircrafts
 - Examine the security configuration and designs of an aircraft's wired and wireless testing systems
 - Analyze and stay current with the strategies of common attack techniques
 - Collaborate closely with management and system engineers to address any potential security weaknesses
-  Qualys Inc., Foster, CA Jun. 2020 - Jul. 2021
Technical Solutions Engineer, Security Applications
- Analyze the results of vulnerability assessments and explain the findings to clients at various technical levels.
 - Identify and resolve any false-positive findings in assessment results
 - Provide technical support to system and technology owners to propose mitigation and remediation solutions
 - Document all issues and assist in their resolution
 - Resolving customer security application concerns in collaboration with management and upper-level engineers
-  Google Inc., Mountain View, CA Jan. 2018 - Mar. 2020
IT Resident, Tech Stop (ITRP)
- Provided in-depth troubleshooting for corporate machines in regards to networking, OS health, applications, and tiered access across multiple systems with a focus on Linux
 - Troubleshoot Google's corporate resources and applications, escalating technical and security issues as needed
 - Consistently received excellent feedback for customer service (99.7 Positive of 4913 all-time interactions)
-  Google Inc., Kirkland, WA Apr. 2019 - Jun. 2019
Security Engineer (rotation)
- Added automated pending and stale functionality to multiple workflows
 - Developed Python scripts to check bug status and see if bug should be placed into pending or stale status due to missing information or nonresponse over a period of time
 - Determined engagement risk and evaluated external client security posture for endorsement: Vendor Security Audits (VSA)
 - Improved regex for a customers workflow
 - New regex expanded the capture of missing edge cases delivering more accurate results

- Refined outdated internal team documentation



Applied Research Center, Miami, FL
DOD Cybersecurity Fellow

Aug. 2016 - Dec. 2017

- Analyzed and researched malicious software and files
- Configured and deployed Cuckoo malware sandbox
- Used various Kali tools for penetration testing of hosts
- Assisted in setting up hardware and software for the Cyberspace Lab in an isolated network environment

PROJECTS

- **Block Vulnerable Installations on Linux:** Created regex to capture attempts to install external software (apt-get install)
 - Notified users on company machine trying to install a specific software manually instead of using Google's internal repository
 - Display a message giving users the alternate secure method of installation
- **Add Active Techs on a Dashboard:** Collaborated with a team and contributed to their codebase adding new functionality.
 - Added new API integration to an existing project using Python
 - Googlers were able to see instantly which techs were online from anywhere

EDUCATION



Florida International University, Miami, FL

Graduated Dec. 2017

- Bachelor of Science in Computer Engineering

TRAINING / COMMUNITY

Coursework:

Jan. 2019 - Present

- **Pentesterlab:**
 - Completed and received a Unix badge for finishing all 34 Unix hacking exercises
- **Python programming:**
 - <https://www.dataquest.io/course/python-for-data-science-intermediate>
 - Practiced data manipulation using JSON and APIs
- **CompTIA Security+:**
 - <http://verify.CompTIA.org> - ID = LVXSX8HPQP1Q1TCQ
- **CompTIA Pentest+:**
 - <http://verify.CompTIA.org> - ID = X87SH79H6HF111W2

Community:

Apr. 2018 - Feb. 2020

Being a first-generation Hispanic American, I enjoy inspiring and motivating others from my community. It all began with my involvement in the FIU Network & Security Organization, where I studied security concepts and participated in hackathons.

- HSI - Hispanic serving institutions: Outreach Core Volunteer
 - Presented at a resume/interview workshop producing 350+ applicants
 - Organized Google employer booth and coordinated activities
- Google ITRP-Python contributor
 - Conducted a weekly learning session with an average of eight people in attendance covering various python beginner topics