Resume #3 - System Administrator – Eric Miller

eric MILLER

Summary of Qualifications

Experienced in delivering efficient and effective solutions on a diverse set of subjects and problems. Knowledge of automation, scripting, and optimization have been vital in meeting strict SLAs and customer requirements. As a result, several solutions have replaced tedious and time-consuming manual effort that took days into processes that can be completed end-to-end in an hour. His ability to quickly get up to speed on unfamiliar technology and tools has been essential in researching, extracting, and analyzing legacy solutions for modernization projects. He has extensive experience in IRS cybersecurity solutions.

Eric has worked on projects with government and commercial clients, and is currently working with FDC, FCOR, and several IRS projects. Insights from performing CMMI audits and cybersecurity projects used to inform design and development processes.

Education

BS in Computer Science, University of Maryland Baltimore County, May 2018

Computer Gaming and Simulation programming, Montgomery College, Jan 2011

Security Clearance

* IRS Cleared, Public Trust, MBI (Active)
* CJIS Clearance

Certifications and Training

**Certificates**

* Splunk Core Certified User
* CMMI Appraisal Team Member

Relevant Experience

Technuf LLC*, Rockville, MD*

**Software Developer & Cybersecurity Analyst 2019 – Present**

* Supporting on-cloud and hybrid cloud implementation with multiple cybersecurity products including FireEye HIDS-EDR deployment at the IRS.
* Configured MS O365 Defender and DLP on the Azure cloud.
* Stood up the POC for O365 DLP on the cloud.
* Developed configuration files and test cases for validating DLP and Defender detection rule sets.
* Worked on Teams, OneDrive and SharePoint deployment and configuration.
* Configured and developed database for file storage, management, and retrieval with web interface.
* Utilized file conversion SDKs to standardize input data into client-specified output formats.
* Extracted and synthesized business logic from legacy systems and code for modernization process.
* Modernized legacy systems into web applications while maintaining access to legacy back-end systems.
* Created control and interface layers between web interface and back-end systems.
* Developed automation scripts to reformat mainframe database files for Splunk.
* Wrote automation scripts for data cleansing and formatting for database and Splunk ingestion.
* Utilized Python libraries to automate and optimize daily data extraction, transformation, and loading (ETL) processes, which saved more than 20 hours per week.
* Designed and developed delta-transformation scripts to optimize the data transformation process by reducing redundant source data, which resulted in a 75% to 90% reduction in data being loaded into the system per day.
* Deployed cybersecurity solutions at client organizations: implementing security policies, configuring firewalls, email security.
* Managed cybersecurity training and testing campaigns for clients.

**UMBC** **2011 - 2018**

***Relevant Projects***

**Cryptology – RSA Encryption**

* Programmed encryption, decryption, and assisting algorithms – Square and Multiply, Miller-Rabin Primality Testing, and Extended Euclidean GCD.
* Computed and generated keys for encryption and decryption.

**Principles of Computer Security – Security Risks of Smart Features and Vehicle Automation**

* Researched the vulnerabilities in car features, such as Key Fobs, On-Board Diagnostic devices, Tire Pressure Monitors, wireless network connections, GPS, and LiDAR.
* Analyzed the associated risks, allowing hackers or car thieves to gain access or control a vehicle.
* Explained possible solutions and steps that can be taken to improve security in these features.

**Software Design – Battleship (Team Lead)**

* Lead group and assigned programming components among the group and incorporated their work into the main program.
* Programmed the UI and opponent AI strategies.

Skills

* NIST 800-53, NIST 800-171 compliance specialist
* Cloud and hybrid cloud security
* Windows XP/Vista/7/10/11, Linux (Ubuntu and Red Hat)
* Java, C/C++, C#, Python
* HTML, CSS, jQuery
* Software: MS Office Suite, Autodesk Maya and 3DS Max, HTML and CSS, Adobe Photoshop, Dreamweaver, and Flash.