Sr. Cyber - Cloud and Data Sr. Cyber - Cloud and Data Sr. Cyber - Cloud and Data - U.S. Securities and Exchange Commission-OIT-SEC Washington, DC Altogether, 40+ years of IT Experience. With 20 years IT Security Advanced Threat and Vulnerability Engineering/Architecture, 35 years of Database and Enterprise Application design, development, coding, testing and implementation. 25 years of Cyber Security Threat and Vulnerability Analysis. Available only in Maryland, Washington D.C. or 100% Remote. I'm looking for Sr Cyber Security, Python and Cloud Engineer/Architect engagements. Work Experience Sr. Cyber - Cloud and Data U.S. Securities and Exchange Commission-OIT-SEC August 2016 to Present Tasks and projects: AWS SEC-C3 Cloud Security design, development, testing and implementation of SEC Micro-Services as well as Red Shift and Neptune binomial security prediction analysis.. Provided solutions using MS Azure PaaS services such as SQL Server, HDInsight, service bus. Azure SEC Cloud implementation and security hardening. Coordinating Imperva, Skybox, Varonis and Tenable Threat/Vulnerability scanning. Skybox Infrastructure Threat and vulnerability analysis and remediation. As well as providing Python scripts for network workarounds. Imperva SecureSphere Threat and vulnerability analysis, Security Assessments and remediation via MXs and GWs. Implement Splunk to the SOC and Analyze AWS Log traffic for Skybox 9.0.5 Build and Configure SNMP Traps Rules and Polling to the NOC Perform Network analysis and remediation using Lua scripts, configuration and WireShark Analysis Provide DLP-DCF-Filewalks, Insider and Cyber Threat Analysis via Varonis and DatAdvantage Provide Skybox Network, Firewall, Threat and Vulnerability remediation with Horizon Network Visualization for Cisco ASA, 3000, 6000, Switches, Routers, Firewalls and Gateways. As well as Python network interface scripts. Provide constant discovery, configuration and remediation to CyberArk Vaults/safes and perform security behavior analysis using PTA Maintain SSLKey Certs and Security analysis tools with upgrades, patches and diagnostics. And code test and implement Python and Java/Javascript workarounds. Provide Skybox Threat and Vulnerability Analysis. As well as Network and Firewall, Router, Switch and Gateway, Threat and Vulnerability analysis. Provide Splunk Cloud Security and Data analysis. Perform Tenable, Tenable.io and Nessus Security Assessment scans throughout the SEC Design, code, test and Implement Security AI and

Machine Learning behavior analysis using Anaconda Orange Tools and Python. As well as build symmetric analysis with PERL Provide EDGAR BigInsights support and analysis using Azure Tools and Services Generate MVC Quick Designs using Ruby on Rails as well as script ruby to address network issues. Performed POA&M policy & rule design, remediation and compliance checks against NIST SP 800-53, STIG, CIS recommendations. Designed and developed SOPs and software/hardware baselines which were appended into organization Information Security Controls. Estimated LOE and time/cost projections for current project. Configured, tested and performed SEC threat and vulnerability analysis with a10 Galaxy-Thunder, Panorama-Palo Alto. Configured, tested and implemented Cyberark privileging with PUU and manually connecting endpoints. Designed, coded, tested and implemented Skybox to Splunk tail - f logs using Python 2.7 scripts. As well installed, configured and tested Universal Forwarders with load balancing and compression for multi-syslog servers. And, fleshed out Splunk Enterprise Dashboards with AWS, Azure Activity, Audit and User data. Designed, coded, tested and implemented FINRA AWS Snowball Security Data feeds to SEC Data Science Workstations (DSW). Performed Fireeye-Helix advanced threat protection analysis as well as detailed Notification-Escalation hierarchies for key decision binding. Programming Languages used to design, develop, code, test and implement: C++ Python, IPython Java and Javascript Lua Perl Ruby Bash, PowerShell, VBA and AWK & SED Scripting Spark and R Operating and Cloud Systems: Amazon Commercial and Gov-Cloud, Azure, Google Analytics AWS Linux, RedHat, Centos, Cisco-IOS, NX-OS, Windows10, Mac-OS X, Cisco-IOS MS Azure PaaS Threat and Vulnerability Analysis Tools: Skybox Infrastructure Threat and vulnerability analysis of Router, Switch, Firewall, WAF, and Gateways Nmap and WireShark - Router, Switch, Firewall and Gateway analysis Imperva SecureSphere Threat Radar & Risk Analyzer Tenable, Tenable.io and Nessus Varonis Insider and Cyber Threat Analysis CyberArk PAS, PTA, PSM AWS Inspector, Trusted Advisor, Config-Explorer Splunk Behavior Analysis IBM BigInsights EDGAR behavioristic analysis FireEye HX-Mail, Endpoints and Analysis Security AI & Machine Learning Tools: Anaconda Orange Python Feature isolation and analysis Security PCA, Kmean, Monte-Carlo and Markov-Chaining Analysis Privilege and Access Management Tools: Varonis,

CyberArk, IAM Data Security and Data Tools: Imperva SecureSphere V13.5 Red-Shift Big Data

Parque Big Data BigInsights Oracle 12c, MSSQL, MySQL, MariaDB, Postgress, Netezza,

MongoDB ERwin, RapidSQL, MySQL WorkBench, Toad Tableau Data Analyzer Baseline and

Compliance Management: Archer-POA&M AWS-Baselines, Oracle-Baselines, MSSQL-Baselines,

Sybase-ASE & IQ Baselines, MariaDB-Baselines, Postgress-Baselines, Netezza-Baselines,

MongoDB-Baselines AaaS, IaaS, PaaS, SaaS: EDGAR-AaaS, SRO-AaaS & IaaS, SRO-PaaS,

SEC-OIT-SaaS Sr. Cloud Data Scientist & Cyber Security Threat and Vulnerability Python Solutions

Architect U.S. Dept of Labor January 2015 to August 2016 Employment and Training Administration

(DOLETA) - Jan 2015 to Aug 2016. Tasks and projects: AWS-DOL Cloud Security design,

development, testing and implementation. Provided solutions using MS Azure PaaS services such

as SQL Server, HDInsight, service bus. Skybox Infrastructure Threat and vulnerability analysis and

remediation. Imperva SecureSphere Threat and vulnerability analysis, Security Assessments and

remediation via MXs and GWs.   Implement Splunk to Analyze AWS Log traffic   Implement

Elastic-Search, Logstash and Kibana Security Cloud Console Perform Network analysis and

remediation using scripts, configuration and WireShark Analysis   Maintain SSLKey Certs and

Security analysis tools with upgrades, patches and diagnostics. And code test and implement

Python and Java/Javascript workarounds.   Perform Tenable, Tenable.io and Nessus Security

Assessment scans throughout the DOL and its subagencies Design, code, test and Implement

Security AI and Machine Learning behavior analysis using Anaconda Orange Tools and Python. As

well as build symmetric analysis with PERL Provide BigInsights support and MasterDB analysis

using Azure Tools and Services   Provide Cloud Cost Models and Budgeting for Cloud

Implementations throught DOL and its subagencies. Generate MVC Quick Designs using Ruby on

Rails as well as script ruby to address network issues. Performed POA&M policy & rule design,

remediation and compliance checks against NIST SP 800-53, STIG, CIS recommendations.

Designed and developed SOPs and software/hardware baselines which were appended into

organization Information Security Controls. Estimated LOE and time/cost projections for current

project. Programming Languages used to design, develop, code, test and implement: C++ Python,

IPython Java and Javascript Perl Ruby Bash, PowerShell, VBA and AWK & SED Scripting Spark & R Operating and Cloud Systems: Amazon Commercial and Gov-Cloud, Azure, Google Analytics AWS Linux, RedHat, Centos, Cisco-IOS, NX-OS, Windows8, Mac-OS X MS Azure PaaS Threat and Vulnerability Analysis Tools: Nmap and WireShark - Router, Switch, Firewall and Gateway analysis Tenable, Tenable.io and Nessus AWS Inspector, Trusted Advisor, Config-Explorer Splunk Behavior Analysis IBM BigInsights & Tableau Trade data behavioristic analysis Security AI & Machine Learning Tools: Anaconda Orange Python Feature isolation and analysis Security PCA, Kmean, Monte-Carlo and Markov-Chaining Analysis Privilege and Access Management Tools: IAM Data Security and Data Tools: Imperva SecureSphere V5 Red-Shift Big Data Parque Big Data BigInsights Oracle 12c, MSSQL, MySQL, MariaDB, Postgress, Netezza, MongoDB ERwin, RapidSQL, MySQL WorkBench, Toad Tableau Baseline and Compliance Management: Archer-POA&M   AWS-Baselines, Oracle-Baselines, MSSQL-Baselines, Postgress-Baselines, Netezza-Baselines, MongoDB-Baselines AaaS, IaaS, PaaS, SaaS: Trade-AaaS, OSHA-AaaS & IaaS, SRO-PaaS, SEC-OIT-SaaS Sr. Python IaaS-PaaS-SaaS - Cloud Cyber Security and Big Data Architect AT&T Research & Development Center - Annapolis, MD February 2013 to December 2014 02/15/2013 - 12/14/2014. Tasks and projects: AT&T Cloud Security design, development, testing and implementation. Skybox Infrastructure Threat and vulnerability analysis and remediation. Guardium Threat and vulnerability analysis, Security Assessments and remediation via MXs and GWs. Implement Splunk to Analyze AWS, OpenStack Log traffic Implement Elastic-Search, Logstash and Kibana Security Cloud Console Perform Network analysis and remediation using scripts, configuration and WireShark Analysis Maintain SSLKey Certs and Security analysis tools with upgrades, patches and diagnostics. And code test and implement Python and Java/Javascript workarounds. Nessus Security Assessment scans throughout the AT&T and its child corps Design, code, test and Implement Security AI and Machine Learning behavior analysis using Anaconda Orange Tools and Python. As well as build symmetric analysis with PERL Provide Cloud Cost Models and Budgeting for Cloud Implementations throught DOL and its subagencies. Generate MVC Quick Designs using Ruby on Rails and Spark/R as well as script ruby to address network

issues. Programming Languages used to design, develop, code, test and implement: C++ Python, IPython Java and Javascript Perl Ruby Bash, PowerShell, VBA and AWK & SED Scripting Spark & R Operating and Cloud Systems: Amazon Commercial and Gov-Cloud, Azure, Google Analytics AWS Linux, RedHat, Centos, Cisco-IOS, NX-OS, Windows7, Mac-OS X Threat and Vulnerability Analysis Tools: Nmap and WireShark - Router, Switch, Firewall and Gateway analysis Nessus AWS Inspector, Config-Explorer Splunk Behavior Analysis Tableau data visualization and behavioristic analysis Security AI & Machine Learning Tools: Anaconda Orange Python Feature isolation and analysis Security PCA, Kmean, Monte-Carlo and Markov-Chaining Analysis Privilege and Access Management Tools: IAM Data Security and Data Tools: Parque Big Data BigInsights Riak, MSSQL, MySQL, Postgress, MongoDB ERwin, RapidSQL, MySQL WorkBench, Toad Tableau Baseline and Compliance Management: AWS-Baselines, Postgress-Baselines, Netezza-Baselines, MongoDB-Baselines, Riak-Baselines AaaS, IaaS, PaaS, SaaS: AT&T-AaaS, BabyBell-AaaS & IaaS, -PaaS, AT&T-SaaS Threat and Vulnerability Python Cyber Security Architect Centers for Medicare and Medicaid Services August 2011 to February 2013 Tasks and projects: Beneficiaries Cloud Security design, development, testing and implementation. Guardium Threat and vulnerability analysis, Security Assessments and remediation via MXs and GWs. Implement Splunk to Analyze AWS, OpenStack Log traffic Implement Elastic-Search, Logstash and Kibana Security Cloud Console Perform Network analysis and remediation using scripts, configuration and Ethereal Analysis Maintain SSLKey Certs and Security analysis tools with upgrades, patches and diagnostics. And code test and implement Python and Java/Javascript workarounds. Nessus Security Assessment scans throughout the CMS Design, code, test and Implement Security AI and Machine Learning behavior analysis using Python and PySci. As well as build symmetric analysis with PERL Provide Cloud Cost Models and Budgeting for Cloud Implementations throughout CMS and its subagencies. Generate MVC Quick Designs using Ruby on Rails and Spark/R as well as script ruby to address network issues. Performed POA&M policy & rule design, remediation and compliance checks against NIST SP 800-53, STIG, CIS recommendations. Designed and developed SOPs and software/hardware baselines which were

appended into organization Information Security Controls. Estimated LOE and time/cost projections for current project. Programming Languages used to design, develop, code, test and implement: C++ Python, IPython Java and Javascript Perl Ruby Bash, PowerShell, VBA and AWK & SED Scripting Spark & R Operating and Cloud Systems: Amazon Commercial and Gov-Cloud AWS Linux, RedHat, Centos, Cisco-IOS, NX-OS, Windows, Mac-OS X Threat and Vulnerability Analysis Tools: Nmap and Ethereal - Router, Switch, Firewall and Gateway analysis Nessus Config-Explorer Splunk Behavior Analysis Security AI & Machine Learning Tools: Python w/AI and ML Libs Feature isolation and analysis Security PCA, Kmean, Monte-Carlo and Markov-Chaining Analysis Privilege and Access Management Tools: IAM Data Security and Data Tools: Parque Big Data Riak, MSSQL, MySQL, Postgress, MongoDB ERwin, Toad Baseline and Compliance Management: AWS-Baselines, Postgress-Baselines, MongoDB-Baselines, Riak-Baselines AaaS, IaaS, PaaS, SaaS: CMS-AaaS, BabyBell-AaaS & IaaS, -PaaS, CMS-SaaS Sr. Medical-Mobile & Investment/Real Estate Python Architect/ Developer P.E. Inc February 2010 to August 2011 Evenings/Weekend Projects Tasks and projects: MSL Listing Service using Drupal & PHP Modules. Design, develop, code, test and implement Tablet Patient Chart System Programming Languages used to design, develop, code, test and implement: Python, IPython Java and Javascript Bash, PowerShell, VBA and AWK & SED Scripting Object-C C++ Operating and Cloud Systems: RedHat, Centos, Windows, Mac-OS X & IOS Threat and Vulnerability Analysis Tools: Nmap and Ethereal network analysis Security AI & Machine Learning Tools: Python w/AI and ML Libs Feature isolation and analysis Security PCA, Kmean, Monte-Carlo and Markov-Chaining Analysis Data Security and Data Tools: Parque Big Data MySQL & MongoDB ERwin, Toad Baseline and Compliance Management: MongoDB-Baselines   IT Python Cyber Security Information Assurance Subject Matter Expert (SME), 04-2010-08-2011 - The Administrative Office of the United States Courts Tasks and projects: OpenStack - Prisoner Financial Care Cloud Security design, development, testing and implementation. Keystone Threat and vulnerability analysis, Security Assessments and remediation via MXs and GWs. PERL Log Analyzer Scripts for OpenStack Log traffic Perform Network analysis and remediation using scripts, configuration and

Ethereal Analysis Design, code, test and implement security symmetric analysis with PERL Generate MVC Quick Designs using Ruby on Rails script ruby to provide courts with 3-tiered data access and analysis. Programming Languages used to design, develop, code, test and implement: Python, IPython C++ Java and Javascript Perl Ruby Bash, PowerShell, VBA and AWK & SED Scripting Operating and Cloud Systems: OpenStack RedHat, Centos, Windows, Mac-OS X Threat and Vulnerability Analysis Tools: Nmap and Ethereal - Router, Switch, Firewall and Gateway analysis Security AI & Machine Learning Tools: Python w/AI and ML Libs Feature isolation and analysis Security PCA, Kmean, Monte-Carlo and Markov-Chaining Analysis Privilege and Access Management Tools: OIM, OAM Data Security and Data Tools: Parque Big Data Oracle 9 & 10g ERwin, Toad C&A Lead-Tech Department of Education - FSA - Washington, DC August 2009 to April 2010 Tasks and projects: Guardium Threat and vulnerability analysis, Security Assessments and remediation via MXs and GWs. Perform Network analysis and remediation using scripts, configuration and Ethereal Analysis Generate MVC Quick Designs using Ruby on Rails and Spark/R as well as script ruby to address network issues. Programming Languages used to design, develop, code, test and implement: Python, IPython Java and Javascript Perl Ruby C++ Bash, PowerShell, VBA and AWK & SED Scripting Spark & R Operating and Cloud Systems: OpenStack Ubuntu, Centos, Windows, Mac-OS X Threat and Vulnerability Analysis Tools: Nmap and Ethereal - Router, Switch, Firewall and Gateway analysis Config-Explorer Privilege and Access Management Tools: OIM, OAM Data Security and Data Tools: Parque Big Data Oracle, MySQL, MongoDB Toad SR. Security Python Engineer AT&T Research & Development Center - Annapolis, MD December 2006 to January 2009 Tasks and projects: Perform Network analysis and remediation using scripts, configuration and Ethereal Analysis Maintain SSLKey Certs and Security analysis tools with upgrades, patches and diagnostics. And code test and implement Python and Java/Javascript workarounds. Design, code, test and Implement Security AI and Machine Learning behavior analysis using Python and ML Libs. As well as build symmetric analysis with PERL Generate MVC Quick Designs using Ruby on Rails for data access and analysis Programming Languages used to design, develop, code, test and implement: Python Java and Javascript Perl

C++ Ruby Bash, PowerShell, VBA and AWK & SED Scripting Operating and Cloud Systems: RedHat, Ubuntu, Windows, Mac-OS X Threat and Vulnerability Analysis Tools: Nmap and Ethereal - Router, Switch, Firewall and Gateway analysis Privilege and Access Management Tools: OAM, OIM Data Security and Data Tools: MySQL, Postgress ERwin, Toad SR. Python Cyber Security Architect Fannie - Mae, WA February 2006 to December 2006 DC Tasks and projects: Desgin, develop, code, test and Implement Mortgage Servicing and Traunce Analysis Perform Network analysis and remediation using scripts, configuration and Ethereal Analysis Design, code, test and Implement Security AI and Machine Learning behavior analysis using Python and ML Libs for Traunce KPMIs. As well as build symmetric analysis with PERL Generate MVC Quick Designs using Ruby on Rails for data access and analysis Programming Languages used to design, develop, code, test and implement: Python Java and Javascript Perl Ruby C++ Bash, PowerShell, VBA and AWK & SED Scripting Operating and Cloud Systems: RedHat, Ubuntu, Windows, Mac-OS X Threat and Vulnerability Analysis Tools: Nmap and Ethereal - Router, Switch, Firewall and Gateway analysis Data Security and Data Tools: MySQL, Postgress ERwin, Toad Sr. Python Security Architect CSB-FSA - Germantown, MD April 2004 to February 2006 Tasks and projects: Desgin, develop, code, test and Student Loan Sallie Mae Defaults Analyzer System Perform Network analysis and remediation using scripts, configuration and Ethereal Analysis Design, code, test and Implement Security AI and Machine Learning behavior analysis using Python and ML Libs for Student Default Prediction and Recommender Model Analyzer System. As well as build symmetric analysis with PERL Generate MVC Quick Designs using Ruby on Rails for data access and analysis Analyze, design, develop, code, test and implement C++ Exploit Workarounds Programming Languages used to design, develop, code, test and implement: Python Java and Javascript Perl Ruby Bash, PowerShell, VBA and AWK & SED Scripting C & C++ Operating and Cloud Systems: RedHat, Windows, Mac-OS X Threat and Vulnerability Analysis Tools: Nmap and Ethereal - Router, Switch, Firewall and Gateway analysis Data Security and Data Tools: MySQL, Postgress, Oracle 8i ERwin, Toad SR. SECURITY ARCHITECT BNL Inc - Frederick, MD November 2000 to April 2004 Tasks and projects: Desgin, develop, code, test and XSLT Year-2000

conversion system Perform Network analysis and remediation using scripts, configuration and Ethereal Analysis Generate MVC Quick Designs using Ruby on Rails for data access and analysis Analyze, design, develop, code, test and implement C++ Exploit Workarounds Programming Languages used to design, develop, code, test and implement: Python Java and Javascript Perl Ruby Bash, PowerShell, VBA and AWK & SED Scripting C & C++ XSLT & XDocs Operating and Cloud Systems: RedHat, Windows, Mac-OS X Threat and Vulnerability Analysis Tools: Nmap and Ethereal - Router, Switch, Firewall and Gateway analysis Data Security and Data Tools: Ingress, Oracle 6 Toad SR. SECURITY -Internet and Data Architect Chase Insurance Group - Chase Manhattan Bank - New York, NY August 1999 to November 2000 DE & NY Tasks and projects: Black-Card Credit Fraud Analyzer System   Desgin, develop, code, test and XSLT Year-2000 conversion system Perform Network analysis and remediation using scripts, configuration using PERL Scripts Analyze, design, develop, code, test and implement C++ Exploit Workarounds Programming Languages used to design, develop, code, test and implement: Python Java and Javascript Perl Bash, Bison, Lex, AWK & SED Scripting C & C++ Operating and Cloud Systems: MACH Unix TAL, Windows, Mac-OS Threat and Vulnerability Analysis Tools: Nmap and Ethereal - Router, Switch, Firewall and Gateway analysis Data Security and Data Tools: Ingress, Oracle Toad SR. ENTERPRISE ARCHITECT Establish Compaq Services - Greenbelt, MD February 1997 to August 1999 MD Tasks and projects: Establish Compaq Services via dGov Program Perform Network analysis and remediation using scripts, configuration using PERL Scripts Analyze, design, develop, code, test and implement C++ Exploit Workarounds Programming Languages used to design, develop, code, test and implement: Python Perl Bash, Bison, Lex, AWK & SED Scripting C & C++ Operating and Cloud Systems: Windows, Mac-OS Data Security and Data Tools: Ingress, Sybase SR. Technical Sales Support MCI - Springfield, VA January 1995 to February 1997 Tasks and projects: Provide Technical Sales Support for MCI ISDN and Long Line implementations Perform Network analysis and remediation using scripts, configuration using PERL Scripts Analyze, design, develop, code, test and implement C++ Exploit Workarounds Programming Languages used to design, develop, code, test and implement: Python Perl Bash, Bison, Lex, AWK & SED

Scripting C & C++ Operating and Cloud Systems: Windows95, Mac-OS Data Security and Data Tools: Ingress, Sybase Sr. Vax Systems Engineer Greenbelt, MD June 1993 to January 1995 Tasks and projects: Database Administrator for multiple databases - Oracle on Vax/VMS DBASE IV, Foxpro, Rbase Perform Network analysis and remediation using scripts, configuration using PERL Scripts Analyze, design, develop, code, test and implement C++ Exploit Workarounds Programming Languages used to design, develop, code, test and implement: Python Perl Bash, Bison, Lex, AWK & SED Scripting C & C++ SQL Operating and Cloud Systems: VAX-VMS, AIX Data Security and Data Tools: Oracle, Dbase IV, Foxpro, Rbase, Ingress, Sybase   *** Further background of the last 20+ years can be supplied Education Criminal Forensic Psychology & Computer Science Massachusetts Institute of Technology (MIT) OCW 2017

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