

Patrick Vogel – Security Engineer, CISSP

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Profile

As of 2024, I offer twenty-five years of experience keeping computer systems running free of bugs and breaches, while promoting efficiency through automation across regional Internet Service Providers, Web Hosting firms and the Federal government (NASA/ACF/HHS/DHS). I have specialized in Security Engineering for the last six years and keep myself current, welcoming new challenges and expanding on my previous roles as a Linux System Administrator. I'm adept as an engineer, administrator, hardware troubleshooter, and a point person for multiple enterprise class network operating centers. I have a genuine appreciation for operating systems and security, as well as automation, penetration testing and vulnerability mitigation. I obtained the CISSP certification in July 2021.

Experience

Information/DevOps Engineer – USCIS / DHS – Customer Value Partners/CVP January 2023 to Present

Currently supporting the full stack of Java/JavaScript/Oracle SQL including code modifications, bug fixes, enhancements and troubleshooting. Other roles consist of: Jenkins CI pipeline monitoring and troubleshooting (“Buildcop”), Jenkins CD (Deployment) monitoring, troubleshooting and implementation (“Release Captain”) Other technologies used: Docker, GitHub, Splunk, Hawtio, Gradle, SonarQube, Eclipse and Visual Studio IDEs, CloudBees, Ticket management via JIRA and ServiceNow

Information Systems Security Engineer – ACF OCIO / HHS – CVP December 2017 – December 2023

Hired by CVP to continue working at the Administration for Children and Families (ACF) under the Cybersecurity contract that began December 1, 2017. Responsible for the security of the 2 ACF Server environments: Linux and Windows servers on the VMWare platform in their physical data center and the Virtual Windows and Linux environments in their Amazon/AWS Virtual Private Cloud. Other responsibilities include building STIG-hardened RHEL and Amazon Linux OSs for use by the operations team in both environments, providing Nessus scan results and mitigation guidance to the Operations team and ISSOs and CISO. Secure Application Design guidance for the Operations and ISSO teams working on ATOs for new and existing ACF applications and sites, managing the McAfee Epo, CrowdStrike, AlertLogic HIDS, building and maintaining the ACF Splunk installation. Other projects include python scripts to integrate AWS and VMWare inventories with Nessus, import assets/IP/host data into RSA Archer, and proof of concept(s) using newer technologies such as Ansible, Terraform, and Packer to automate builds of STIG hardened AMIs in AWS

Senior Linux Administrator – ACF / DHHS – AcisTek Corporation July 2017 – December 2017

Administration of all Linux systems in the ACF data center and AWS environments while supporting the ACF (Federal Customer), their internal and external web and database applications and other contracts, and all ACF regional offices in the U.S., Employing skills in maintaining the complex array of

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Apache/Nginx/Web cache, Oracle Application/WebLogic and Oracle Database servers on physical and virtual servers running RHEL on VMWare and AWS platforms.

Senior UNIX System Administrator – NASA HQ – ADNET Systems

2013-2017

As a member of NASA HQ Server Operations team, provided support for all UNIX servers in the NASA HQ Computer Center (NHCC) consisting of Solaris and RHEL servers - Physical and Virtual (with VMWare ESX) and generally monitoring all systems on site with Nagios and SolarWinds. NASA HQ has 2000+ users itself and serves all of the agency's remote offices/space centers.

Also worked on long term projects of migrating applications from (Solaris) physical servers to (Linux) virtual servers and cloud-based systems/AWS, migrating all websites to https/SSL, and working to mitigate all security issues found in monthly scans of our systems.

UNIX System Administrator – ACF/DHHS - Global Tunnels Limited Company

2006–2013

Provided server and network administration support for Federal ACF/DHHS contract, to maintain their Washington DC data center environment's array of Web/Apache, Oracle Application and Oracle Database servers as well as the Documentum CMS Software system running on physical Solaris and Red Hat Linux servers and began transitioning them to virtual servers on VMWare/Hyper-V.

Systems Administrator – AiNET, Inc

2004–2006

As the sole Senior System Administrator/Network Engineer for AiNET on site, installed, administered, and maintained over 200 Servers, desktops, routers, and switches on the AiNET network. Provisioned and implemented all systems at the regional datacenters. Maintained DNS, Web services, and network monitoring services using BIND, Apache, MySQL, PostgreSQL, Nagios. Provided 24/7 on-call support to Network Operations Center and assisted with individual client requests. Required to act autonomously to ensure all aspects of network operations run with near zero downtime.

UNIX Engineer - Atlantech Online

2002–2004

Acted as technical lead in the deployment and administration of e-mail and Web services, and with the provisioning and deployment of all collocated and dedicated servers and their related resources.

Administered Windows/FreeBSD/Linux shared hosting environments. Documented company procedures to streamline knowledge transfer process. Lead Administrator of the private backup network handling 125 clients of various operating systems and platforms and expanded knowledge of system administration.

UNIX Server Engineer - DigitalNATION/Verio Inc.

1999–2001

Monitored internal and client hardware including Cobalt, WindowsNT, Solaris, Linux, and BSD servers. Involved in troubleshooting of common TCP/IP & software misconfigurations and acted as assistant to Network Engineers during denial-of-service attacks and routing issues. Produced documentation for

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hardware RAID configurations and OS installations. Promoted to team leader of Solaris Server Provisioning, and then promoted to UNIX Administrator as well as trained technicians for Solaris server provisioning and administration.

Technical Summary

Certifications: CISSP - 2021, Security+ - 2018

Hardware: Cisco & Juniper Routers, Sun SPARC/ULTRA Servers, RAID (1,5,6,10), Dell and HP

Programming languages: Experience with Perl, PHP, Bash, JAVA, C++, Python, Ruby, Java, JavaScript, SQL

Operating Systems: FreeBSD, OpenBSD, Red hat Enterprise Linux, CentOS, Solaris 2.5-10, VMware, VirtualBox, Amazon Linux and AWS cli and Infrastructure, Kali Linux and Metasploit framework

Server Software: Apache, OpenSSH/SSL, MySQL, PostgreSQL, Bind, Nagios, Sendmail, Postfix, CommuniGate, VERITAS NetBackup, CrowdStrike, McAfee AV, Tripwire, Oracle Web Cache, WebLogic Application Server, Database Server, Documentum CMS. Nessus/Tenable, Splunk

Education

Mechanical Engineering and Computer Science Curriculum, University of MD, College Park, 1995-1999

Sun Solaris Administrator Certification Training, Levels 1, 2, 3 – 2000

Security Clearance Levels and Status

Successfully undergone a public trust investigation (e.g., SF 85P, national agency check, fingerprint card submission) and has been, and remains at the time of submission of this resume, deemed suitable by DHS/USCIS for a position of public trust, computer/automated data processing (ADP), sensitive and non-sensitive.

References:

References are available upon request.