

# Joshua ( Jim ) Evans

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## Personal Profile

- Maximizing available resources through heavy automation to best facilitate healthy InfoSec, Ops, and DevOps solutions.
- Preferred Communication method is via Email.

### Core Technologies / Career Focus:

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| • Linux            | • Python    | • Git     |
| • Cloud Automation | • CI/CD     | • Docker  |
| • C++              | • Terraform | • Ansible |

## Professional Experience

### Sr. Platform Engineer (VoiceThread LLC.), Remote • Nov 2022 – Present

- Developed an organizational capacity to spin up isolated, functional platform environments with arbitrary names, via establishment a single, all-encompassing platform Terraform module.
- Implemented AWS Organizations with a multi-account strategy to better secure and isolate production resources while also establishing safe havens for other engineers to test new creative solutions without risk.
- Leveraged Disaster Recovery and AWS Org redesigns to secure VoiceThread an AWS Partnership agreement.
- Embraced a more active role in teaching and steering infrastructure decisions, with the goal of minimizing engineer toil.

### DevSecOps Engineer (VoiceThread LLC.), Remote • Jan. 2021 – Nov. 2022

- Primary Responsibility was retooling VoiceThread's Information Security posture and procedures, leveraging automation wherever possible to increase reproducibility and coverage.
- Served as primary engineer for VoiceThread's first ever SOC2 audit, from planning and buildout stages, to gathering and presentation of evidence. The project resulted in an unqualified SOC2 report for the organization.
- Maintained full cloud, multi-VPC AWS infrastructure via Terraform and Ansible / Packer, with primary focus on EC2 and container computing platforms.
- Built specialized SIEM platform leveraging CloudTrail, AWS Kinesis Firehose, and Graylog, with fully automated rebuild processes and alerting.
- Created custom OS level vulnerability reporting leveraging Python3 and Vuls.io, in addition to building application level static security code analysis and dependency into the CI pipelines.

- Fully rearchitected VoiceThread's QA and Disaster Recovery environments to better facilitate accurate testing and smooth recovery environment transition.
- Formally deprecated Jenkins in favor of Buildkite CI/CD tooling.
- Created Information Security business policies and procedures in preparation for external compliance audits.
- Performed complete infrastructure and User Access audits, leveraging custom tooling for better consistency and turnaround time.

**Systems Administrator II – Linux & Web (Nat. Severe Storms Lab)**, Norman, OK ▪ Dec. 2019 – Dec 2020

- Managed internal GitLab repositories for Lab; acting as primary point of contact for help with Git workflows.
- Led on-going initiatives to re-structure monolithic web architecture, to better ensure organizational up-time.
- Containerized and deployed high-traffic, public-facing authentication proxy, for secure distribution of lab published data-sets and models.
- Responsible for ensuring both the public and internal availability of <https://nssl.noaa.gov/>, including all sub-domains and Research Web Applications.
- Maintained day to day operation of the 120 RedHat 6 and Centos 7 Linux servers for the NSSL's Multi-Radar Multi-Sensor (MRMS) product, an internationally implemented forecasting solution. More information available here: [https://mrms.nssl.noaa.gov/qvs/product\\_viewer/](https://mrms.nssl.noaa.gov/qvs/product_viewer/)
- Deployed user management tooling for the MRMS project via Ansible, allowing for higher accountability in auditing as well as normal operation.
- Restructured MRMS system update pipeline, via multi-pronged effort from Google Forms, Python, and Ansible, to develop a more autonomous patching solution with much greater product owner visibility, while maintaining compliance with federal system regulation.

**Systems Engineer. Legend Energy Services**, OKC, OK ▪ May 2018 – Nov. 2019

- Recovered withheld credentials for local resources, including BackupExec and ShoreTel Director using red team tools and methods (NMAP, Metasploit, and JohnTheRipper).
- Remediated on-going security breeches and present system vulnerabilities, which were the main cause for my on-boarding with Legend Energy.
- Implemented Proofpoint - Email Protection Gateway in front of Office 365 tenant, combating rampant phishing and impersonation attacks occurring within company.
- Moved on-prem File Share and Domain Controller server infrastructure to redundant Virtual Machines on equally redundant ESXi 6.7 hosts.
- Stood up IDS/IPS system (DarkTrace) to better view and respond to security threats, while remaining a lightweight IS team.
- Evaluated and eventually terminated relations with partner MSP, which was replaced with in-housed IT.

- Performed full Permissions Audit and restructure on sensitive data systems, to ensure proper data security through established practice.
- Re-architected Palo Alto FireWall implementation and rules, from previous insecure configuration and practices.
- Conducted Site Surveys of five field offices across Texas, N. Dakota, and Oklahoma, to provide timelines and priorities on infrastructure End of Life replacements.
- Simulated live phishing attack to measure actual user susceptibility and provide training opportunities using open-source attack tools.
- Set-up redundant ISP connections to Corporate office with auto-failover, via Palo Alto Policy Based Forwarding rules, later transitioning ISP's completely from Cox to AT&T.
- Troubleshoot and fixed controller units on Live Coil Tubing, and fracking operations, while actively "down-hole".
- Security Audited AWS hosted customer facing WebApp, running on Clojure and TimeScaleDB.
- Administrated Legend's AWS cloud services, primarily ec2 instances and IAM User Management.
- Integrated multiple SaaS providers under SAML SSO Authentication, to ease user "password overload".
- Wrote and deployed hot-fix to production-critical internal C# Application, hosted on Coil Tubing Controller Units.
- Consulted with newly formed internal development team to architect Data Collection as a Service platform using DevOps tooling (Ansible, Private Github Repositories, and Custom Inventory Management integrations) and principles (IaC, CI/CD) on asynchronous, distributed data collector nodes.

**IT Analyst II – InfoSec. University of Oklahoma Libraries, Norman, OK ▪ Apr. 2017– May 2018**

- Performed a full Active Directory and File Share Permission Audit and Reorganization to streamline future Access Control management.
- Conducted a full Password Management Utility (LastPass) Permission Audit and Reorganization, to ensure appropriate System management access.
- Brought Internal Antivirus into compliance by using network-scanning utilities to locate unsupported AV Products and replace them with Dell DDP (Rebranded Cylance).
- Planned and led a full IT Asset Inventory Audit to ensure financial accountability. This was the first IT Inventory performed at University Libraries.
- Additionally, functioned as Co-Manager of IT Interns, and acting as a Tier III Escalation point for Public facing issues
- Automated IT Related Employee On-boarding and Off-boarding procedures using Powershell, increasing department turnaround time and uniformity.
- Instituted FDE for all Financial and HR Staff, to decrease risk of Data Loss.

- Performed Monthly Vulnerability scanning and analysis using OpenVAS.
- Automated Backups and Business Processes of several secondary systems and resources, mainly by leveraging Powershell. As well as developing Automation Solutions for time-sensitive unique technology challenges.
- Maintained Several On-Premises Windows 2012 R2 Virtual Machines located on a single ESXi 5.5 node.
- Managed various On-Premises Application Systems, including Laserfiche, QuickBooks, WSUS, IIS Webservers, and Library Specific Proprietary Software.
- Drafted and Implemented an Information Security Policy, InfoSec Incident Response Policy, and other Security Related Documents, resulting in an external IT Audit having no written change recommendations.
- Aided in Internal Server Hardware Relocation and Disaster Recovery planning and implementation, while maintaining a high degree of up time for internal staff and campus wide resources, by leveraging existing hardware and VMware vMotion Utilities.
- Recommended, helped institute, and sat as a charter member on the University Libraries Internal Change Management Board.
- Worked closely with the DevOps team to design secure deployment practices and features, via Ansible roles and Vault.

**IT Administrator. Revenue Management Solutions, OKC, OK ▪ Dec. 2015 – Apr. 2017**

- Maintained and serviced 90+ workstations and 140+ physical and virtual servers over a WAN spanning 3 locations using RDP, PuTTY, and vSphere utilities, as half of a two-man IT Department for a SaaS company.
- Administered 90+ Windows 2008 and 2012 R2 Servers, as well as 75+ Ubuntu 14 LTS Servers.
- Oversaw Active Directory and Microsoft Exchange Server tasks via Powershell and MMC, including Group Permission Administration, Distribution Group Setup, and General User Creation/ Removal.
- Edited and Enabled Group Policy to conform environment to meet external security standards.
- Protected critical infrastructure from external threats via AlertLogic Vulnerability Scanner, Barracuda Load Balancer, Barracuda Web Application Firewall, and Palo Alto FireWalls.
- Planned and deployed a Linux Security Patch Management policy by using Aptly to build and maintain local repositories of approved security updates.
- Tested and deployed Office365 into a production environment.
- Remediated network transfer issues between clients and RMS's GlobalScope EFT SFTP server.
- Installed and configured ESXi 5.5 servers in a production environment, as well as troubleshooted any outages in their service.

- Responsible for the upkeep of Software and Hardware inventory records, primarily using SpiceWorks.
- Diagnosed network outages and connectivity issues by analyzing network traffic with WireShark.
- Designed and implemented a 100+ user and infrastructure office move, in the span of one week, with only 45 minutes of planned downtime, total.
- From December 15, 2016 until February 10 2017, I was the only IT Employee for the business, and was able to get us through a successful sale of the company.

**IT Assistant – College of Arts & Sciences IT, Norman, OK ▪ September 2013 – September 2015**

- Provided College Faculty and staff with on-site and on-location technical support for software, hardware, and networking/domain issues
- Successfully redesigned, rewired, and renovated Graduate computer lab with 20+ workstations unsupervised using Clonezilla mass deployment.
- Managed hardware deployment, repair, and inventory, with Symantec Ghost as primary imaging software.
- Trained incoming co-workers, while helping to re-enforce a more sociable, user problem-solving IT environment.
- Strove to aid the department with simple Powershell and VBA scripting, aiming to reduce turnaround times and increase professionalism.

**Data Entry Specialist – Axis Practice Solutions (Now Defunct), Norman, OK ▪ April 2012 – September 2012**

- Filed Medicare/ Medicaid patient claims for several medical offices and institutions requiring HIPAA compliance.
- Used Microsoft Excel 2010 extensively, increasing company efficiency with distribution of VBA macros.

## **Programming and Software Skills**

- Familiar with C++, Ansible, BASH, and Python, as well as experience with C, C#, and Javascript / Node.js.
- Hands on experience with MSSQL, PostgreSQL, and other Relational Databases.
- Maintained Private and Public GitHub Repositories for personal and enterprise use.

## **Education and Accolades**

- High School Diploma – Norman North, Norman, OK ▪ 2012
- Attended University of Oklahoma – 2012 to 2015
- Vice President of Classics and Letters Honor Society

- Comptia Security+ Certification – November 2017.
- AWS Certified SysOps Associate – October 2020.