NICK GRAHAM

Principal Infrastructure Engineer

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SUMMARY

I'm Nick, an experienced systems engineer with a wide range of proficiencies ranging from simple Linux administration to complex automated application service deployments with Kubernetes.

Over the years I've worked to develop a broad set of skills across the IT space, and at the moment I'm using those to support developers and projects at Capital District Physician's Health Plan, a regional health insurance company in upstate New York.

WORK EXPERIENCE

2016 - Present

Principal Infrastructure Engineer

Capital District Physician's Health Plan

As a leader on the Linux engineering team I serve as the subject matter expert for Linux and its related technology stack. My responsibilities include creating architecture solutions, overseeing technology projects to completion, and implementing automation processes that reduce toil and solve business problems. I provide leadership in decision-making and hold responsibility for my team members.

In addition to these duties, I manage monitoring and incident response, ensuring high availability and system uptime. I also act as a liaison between the development and infrastructure teams, facilitating seamless collaboration and ensuring that developers have the tools and support they need to efficiently write and deploy code.

I primarily operate in a Linux environment on AWS and VMware, utilizing tools such as Kubernetes, Git, Ansible, Jenkins, and Python to build and maintain application server systems and pipelines that serve developers and business units.

Achievements:

- Architected and executed Single Sign-On (SSO) system expansion to AWS, creating a multiregion, highly available system with no downtime since its creation. This greatly improved the reliability of our authentication system for both employees and customers.
- Fully automated deployment and configuration management of Mulesoft application server architecture using Ansible, including over 80 individual services across 4 SDLC environments. This allowed for consistent, reliable, quick deployments of new services and updates.
- · Led the containerization of legacy Tomcat services into fully automated, reliable solution on Kubernetes. This enabled developers to deploy new services with minimal effort, and provided a consistent, reliable platform for those services to run on.
- Created many CI/CD pipelines in Jenkins to turn complex processes like code builds, file deployments, or configuration changes into scheduled, or one-click operations. This greatly reduced the time and effort required to deploy changes, as well as reducing the chance for
- Automated the transition from CentOS to RHEL, and subsequent upgrades to RHEL 9. This reduced the amount of labor required to perform these upgrades by the whole engineering staff.
- · Organized and streamlined Ansible playbook usage, including the development of easy-to-use environment build scripts, and personal training/mentoring for other engineers. This enhanced the use of Ansible and improved automation capabilities for everyone's work across the team.
- Created a custom internal site with Python that integrates with our SSO system APIs. This provides users across the company with a central place to find SSO links, rather than relying on links maintained in wikis or emails.

Technologies used:



Systems Engineer 2013 - 2016

Xerox Corporation

At Xerox I quickly rose to become the subject matter expert for a number of systems including our VMware infrastructure (thousands of hosts across 6 datacenters in the US, UK, and China), Commvault backup infrastructure, as well as an automated self-service tool I created that employees used to build sandbox environments and adjust the scale of production services. I also acted as a general systems engineering resource for both Windows and Linux server work.

Achievements:

- Led VMware expansion to two new datacenters in China, including hardware purchasing, deployment, and configuration.
- Architected and implemented up all of the backup infrastructure required to support disaster recovery for all of Xerox's systems
- Created a VM deployment process automation from the ground up with VMware Orchestrator.
- Enhanced the system lifecycle process around all of our VMware infrastructure. Everything from creation of new servers, patching existing ones, updating configurations, and server decommissioning was streamlined and automated in some way.

Technologies used:



Information Systems Intern

Saratoga Hospital

2013 - 2013

For my senior year of college, right before graduating, I took up an internship with one of the larger hospitals close to me. There I learned about the interpersonal nature of IT, helping users and developers get what they need, more than I ever had in any of my college classes. I also started delving into automation and found my love for reducing toil.

Achievements:

- Created custom code for the ticket tracking system (Spiceworks), in order to add some custom fields and workflows that the base product didn't provide.
- Created a fully featured PC deployment solution using the Microsoft Deployment Toolkit (MDT). Before my arrival PC deployments were all done manually, clicking through the installer. After deploying MDT new PC builds were as simple as starting a machine and selecting the PXE boot option.

Technologies used:



SUNY Canton

IT Technician

While in college I worked in my school's IT department. There I worked alongside the more senior networking staff and acted as a junior network engineer; making smaller scale cabling changes, adjusting VLANs and port statuses on switches, and just generally helping out around the shop.

Achievements:

• Created a PHP application called <u>NETINV</u> to track the association between switches, patch panel ports, and wall ports in classrooms. Identifying where various switch ports went was a huge hassle at the time, and my contribution removed the painful process of having to manually trace out each network connection when making port changes.

Technologies used:



SKILLS & TOOLS

Professional

Effective Communication

Problem Solving

Project Management

Teamwork

Technical

Ansible

Apache HTTPd **Appdynamics**

Artifact Repositories

Bash

Commvault Simpana Docker

HashiCorp Packer

HashiCorp Terraform

Javascript Jenkins

Kubernetes

Nginx

Linux

Ping Federate (SAML/Oauth)

Powershell Python

VMware

Windows Server

Others

Amazon Web Services

Change Management Configuration Manageme

Databases (MSSQL, MySQL) Documentation

ELK (Elasticsearch, Logstash, Kibana) IIS

Large Language Models (LLMs) Oauth

Physical Server Administration (Blade/Rack) Rancher Red Hat Enterprise Linux (RHEL)

Sonatype Nexus Source Control (Git) System Integration

SAN Management

VMware PowerCLI

EDUCATION

Bachelor's, Information Technology **SUNY Canton** 2013

CERTIFICATIONS

- **★** VMware VCP6-DCV current
- **★** Cisco CCNA 2013

LANGUAGE

English (Native)

INTERESTS

3D Printing Cars Landscaping Mechanics Music Robotics Volunteer Firefighter

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