Donald Yang

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SKILLS

Certifications: CompTIA Security+, AutoCAD Certiport Certified 2017
Languages: Python, C++, Bash, SQL (Oracle SQL, SQL), Groovy, C, C#, PowerShell, YAML, JavaScript, HTML5
Tools & Software: Apache Kafka, Jenkins, Pytest, Flask
Platforms: Linux, Mac, Windows, VMWare vSphere 6/7
Infrastructure Management: Docker, Kubernetes, Helm, Patching, Upgrading, Troubleshooting
Data & CI/CD: Data Pipelines, Jenkins Automation, Relational Databases

WORK EXPERIENCE

Deltek, System Administrator – Remote, US — June 2022 – August 2022

- Orchestrated the End-of-life (EOL) transition for Windows Server 2012 R2 systems, mitigating potential vulnerabilities and ensuring continuous service by coordinating decommissioning, in-place upgrades, and VM requests in SharePoint, and resolving tickets in Zendesk.
- Enhanced IT communication strategies, fostering clear collaboration through detailed emails and discussions; recognized for exceptional customer service, streamlining server management procedures, and boosting user satisfaction.
- Leveraged VMWare vSphere to optimize infrastructure management, including organizing server tags, managing external server lists, executing patches, and implementing system rollbacks to maintain service integrity.
- Drafted comprehensive documentation on Windows Server 2012 R2 EOL transition and led team training sessions.

Tottenville HS, Computer Technical Assistant – Staten Island, NY — June 2019 – July 2019

- Diagnosed and resolved printer/audio issues on devices; Set up computers with OS, drivers, cables, and hardware for users

PROJECTS

AzureNestCDISLab (DevOps Network) — December 2023 - Present

- Developed a homelab in Azure, using nested virtualization on Ubuntu LTS to simulate a partial mesh topology to deploy CDIS in a network environment, and configured VLANs linked to a Layer 2/3 adventerprisek9 Cisco switch using OSPF for load sensitive network functionality.
- Utilized Ethernet dot1q encapsulation for efficient VLAN management and network segmentation, enabling trunking across multiple Layer 2/3 switches, and implemented PAT on a Cisco 3725 router to optimize IP address utilization.
- Integrated Switch Virtual Interfaces (SVIs) to enable communication between VLANs.

Continuous Data Integration/Deployment System (DevOps) — June 2023 – December 2023

- Designed an end-to-end data pipeline. Utilized Kafka for data transmission and SQLite for lightweight applications across three microservices that presented real-time data, interactively through Flask. Administered Jenkins in Kubernetes on Minikube, automating CI/CD processes.
- Streamlined microservices with Docker and data pipeline via Jenkins. Deployed Kafka and Zookeeper using Helm in Minikube, demonstrating infrastructure automation and IaC with Kubernetes manifests, reinforced by unit testing for system reliability and data integrity.

Multithreaded Web Server and Proxy Cache — April 2023 – May 2023

- Collaborated on a multithreaded web server supporting HTTP 1.0/2.0, enabling efficient large file transfers through persistent TCP connections, and designed a proxy cache system with a UDP pinger mechanism to reduce server loads and ensure server availability, during cache misses enhancing data retrieval speeds.

Virtual Home Lab — October 2020 – August 2021

- Streamlined device management and secured data storage by establishing GPOs and a centralized file server, while enhancing network security through effective VLAN segmentation to minimize attack vectors.
- Integrated pfSense LDAP with Windows Domain Controller and deployed Pi-Hole domain-wide, ensuring secure authentication, faster web browsing, reduced advertisements, and improved name resolution via recursive DNS.

AWARDS & ACHIEVEMENTS

Google Tech Challenge 2019 @ Binghamton University - 1st Place Team — September 2019

- Competed against a dozen campus teams by working with four colleagues in coding speed-runs and puzzles.

New York City Science and Engineering Fair (NYCSEF) - Finalist — June 2019

- Assisted in the design and presentation of a prototype that uses NYC's 311 API to populate a map with four colleagues.

EDUCATION

Binghamton University, State University of New York, Thomas J. Watson School of Engineering and Applied Science
Bachelor of Science in Computer Science — Graduated August 2023