

Donald Yang

929-561-1319 | donald.yang.tech@gmail.com | github.com/dyang21 | dyang21.github.io

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: Microsoft Office, Pytest, Jenkins, Apache Kafka, Flask

Platforms: Linux, Mac, Windows, VMWare vSphere 6/7

Infrastructure Management: Troubleshooting, Patching, Upgrading, Docker, Kubernetes, Helm

WORK EXPERIENCE

Delttek, 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

Chinese American Planning Council, ESL Teacher – Brooklyn, NY June 2018 – August 2018

- Taught English as a secondary language to senior citizens. Utilized specific teaching methods and archived lesson plans.

Cobble Hill Health Center, Nurse Aide – Brooklyn, NY June 2016 – July 2016

- Answered residents' calls to relay to nurses. Worked in a team to assist senior patients with their daily activities.

PROJECTS

AzureNestCDISHomeLab (Network) December 2023 – Present

- Developed a homelab in Azure, using nested virtualization on Ubuntu LTS to simulate a topology to deploy CDIS in a network, and configured VLANs linked to a Layer 2/3 enterprise Cisco switch using OSPF for load sensitive network functionality. Integrated SVIs to enable communication between VLANs.
- 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.
- 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.

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 secure data storage established through GPOs and a centralized file server. Enhanced network security achieved via VLANs, integration of pfSense LDAP with Windows Domain Controller, and deployment of Pi-Hole as a recursive DNS domain-wide, ensuring secure authentication, faster web browsing, and reduced advertisements.

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