

Donald Yang

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SKILLS

Certifications: CompTIA Security+, AutoCAD Certiport Certified 2017, OSHA 10-Hour Construction Safety and Health

Languages: Python, C++, SQL (Oracle SQL, SQL), Groovy, C, C#, Bash, PowerShell, YAML, JavaScript, HTML5

Tools & Software: Kafka, Jenkins, Pytest (Unit Testing), Socket, Threading, SQLite, Flask, WireShark, pfSense, AutoCAD

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

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

Data Integration & CI/CD: Data Pipelines, Jenkins Automation, Relational Databases

WORK EXPERIENCE

Deltek, System Administrator Intern – Remote

June 2022 – August 2022

- Orchestrated the EOL transition for Windows Server 2012 R2 systems, mitigating potential vulnerabilities and ensuring continuous service through coordinating decommissioning, in-place upgrades, and VM requests.
- 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, ensuring knowledge transfer and reinforcing best practices within the team.

Tottenville High School, Technical Aide – Staten Island, NY

June 2019 – July 2019

- Installed Mac/Windows operating systems and printer drivers, streamlining computer setups for school use.
- Assembled and set up computers with the necessary cables and hardware, ensuring students had functional systems.
- Configured and optimized networking equipment, facilitating stable Ethernet connections for improved connectivity.

PROJECTS

Continuous Data Integration/Deployment System (DevOps)

June 2023 – August 2023

- Designed an end-to-end sensor data pipeline beyond the limits of ChatGPT, ensuring project authenticity; Utilized Kafka for data transmission and SQLite for lightweight applications across three microservices.
- Streamlined system scalability and efficiency by implementing Docker for microservices and establishing CI/CD pipelines with Jenkins, resulting in faster deployment and resource optimization.
- Managed Kubernetes configurations, including kubeconfig file creation for Jenkins to interact with the Minikube cluster, while implementing granular access controls and permissions within the namespace, securing containers.
- Enhanced system reliability by integrating Kubernetes-based unit tests, fortifying data integrity and bolstering application performance.

Multithreaded Web Server and Proxy Cache

April 2023 – May 2023

- Collaborated with a colleague on the development of a multithreaded web server that supported both HTTP 1.0 and HTTP 2.0 requests, enabling efficient handling of large file transfers by maintaining persistent TCP connections.
- Designed and implemented a proxy cache system that stored recent requests, significantly reducing server loads and enhancing data retrieval speeds.
- Incorporated a UDP pinger mechanism to the proxy, transmitting pings to ensure server availability during cache misses.

Virtual Home Lab

October 2020 – August 2021

- Established GPOs and a centralized file server, streamlining device management and ensuring secure data storage.
- Enhanced overall network security with VLAN segmentation, effectively reducing potential attack vectors.
- Seamlessly integrated pfsense LDAP with Windows DC, promoting a robust, secure AD login mechanism.
- Deployed Pi-Hole domain-wide, speeding up web browsing, minimizing ads, and bolstering domain name resolution through a recursive DNS.

Lost In Space (Platformer)

October 2019 – December 2019

- Solely handled the complete development of a Python-based side-scrolling game using Pygame, integrating advanced game mechanics and dynamics; the project was recognized and awarded 3rd place among 30 teams for its engaging design

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