

# Donald Yang

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## EDUCATION

**Binghamton University, State University of New York, Thomas J. Watson School of Engineering and Applied Science**

*Bachelor of Science in Computer Science*

*Summer 2023*

## TECHNICAL SKILLS

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

**Languages:** Python, C++, C, Bash, Javascript, HTML5, Basic CSS3

**Tools & Software:** Kafka, Jenkins, SQLite, Flask, VMWare vSphere, Oracle VM Virtualbox, AutoCAD, MS Office (Word, PowerPoint)

**Platforms & Technologies:** Docker, Kubernetes, Linux, Windows, UNIX, Windows Server 2012 R2, VMWare VSphere 6/7

**Server & System Administration:** End of Life management, System identification and installation, Server patching and upgrading, Troubleshooting

**Data Integration & CI/CD:** Data pipelines, CI/CD automation, Container orchestration

## PERSONAL PROJECT EXPERIENCE

**Continuous Data Integration System (CDIS), Independent Developer**

*June 2023 - August 2023*

- Developed a data integration pipeline for sensor data simulation, ingestion, processing, and visualization
- Employed Kafka for producing and transmitting simulated sensor data and stored in SQLite for lightweight application purposes
- Containerized microservices (data generator, processor, Flask app) for enhanced scalability using Docker
- Automated the CI/CD pipeline with Jenkins, integrating tasks from code checkout to Kubernetes deployment
- Used a dedicated Docker network for Jenkins ensuring better security and connectivity between containers.
- Established unit tests validating data-related functionalities
- Ensured data persistence across deployments with Kubernetes Persistent Volumes and Claims
- Designed a Flask web application visualizing sensor data using Plotly

**Virtual Home Lab, Independent Administrator**

*October 2020 - August 2021*

- Practiced administration in Windows AD; Implemented GPOs and established a centralized file server.
- Integrated pfsense LDAP authentication with Windows DC for AD login.
- Segregated network traffic using VLAN and enhanced security.
- Implemented Pi-Hole as a domain-wide ad-blocker and established recursive DNS for improved privacy.

**Lost In Space (Platformer), Independent Developer**

*October 2019 - December 2019*

- Developed and implemented using Python; focused on GUI, JSON data storage, game mechanics, and animations.
- Managed workload and time autonomously within the task assigned to deliver to specification and schedule

**Scraper Script, Independent Developer**

*August 2019 - October 2019*

- Built a Python application to precisely pull and parse raw HTML from a webpage to monitor prices during sale

## PROFESSIONAL EXPERIENCE

**Delttek (Internship), System Administrator**

*June 2022 - August 2022*

- Managed End of Life for Windows Server 2012 R2.
- Developed and tested new procedures for project management.
- Authored Powershell scripts for automation, including email management and server identification.
- Identified and organized Ivanti devices using Powershell; documented steps for Windows Server 2012 R2..
- Documented installation and troubleshooting steps for Windows Server 2012 R2 Dispositions.
- Assisted in administering VMWare VSphere 6/7 environment and ensured optimal server operations.

**Tottenville High School, Technical Aide**

*Summer 2019*

- Installed Mac/Windows operating systems and printer drivers for school use
- Assembled computers for students, including setting up cable and hardware
- Configured and tuned networking equipment to establish Ethernet connection

## RELATED EXPERIENCE

**Binghamton ACM Programming Competition 2019**

*Fall 2019*

- Engaged in three coding challenges; honed debugging and code optimization skills.

**Google Tech Challenge 2019**

*September 19, 2019*

- Secured 1<sup>st</sup> Place while on a team of five
- Competed with a dozen teams on coding speed-runs and puzzles at the campus