

# JACKSON NACE

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## Education

### University of Houston

Graduation Date: Fall 2026

*Bachelor of Science in Computer Science*

*Houston, Texas*

- Coursework: Data Science and Machine Learning, Data Structures and Algorithms, Networking, Databases, Computer Organization and Architecture, Object Oriented Programming, Statistics with R, Python, Discrete Mathematics

### Certifications

- CompTIA Security+, Azure Fundamentals (AZ-900)

## Experience

### Derrick Corporation

March 2025 – Present

*IT Intern*

*Houston, Texas*

- Programmed 18 workflows that streamlined operations for marketing, sales, and HR, including a backend system for tracking \$20,000 of merchandise that improved inventory accuracy and order fulfillment.
- Built safety kit tracking system boosting inspections from 70 to 660/yr, improving compliance.
- Reduced daily email traffic by over 200 emails a day by consolidating existing code, improving communication efficiency.
- Collaborated on the design of database records and fields, improving data consistency for over 800 data points by training international employees on best practices.

### University of Houston - School of Nursing

August 2024 – February 2025

*IT Student Assistant*

*Katy, Texas*

- Provided essential IT support for over 130 faculty and students, troubleshooting hardware and software to ensure uninterrupted access to academic resources.
- Assisted in the system configuration of 10+ computers during a transition to Windows 11, which required hands-on experience with system imaging and BIOS settings.
- Created and managed a comprehensive equipment inventory of over 110 assets in Excel, which established a reliable system for tracking and managing the school's technology resources.

### Lavner Education

May 2024 – August 2024

*Computer Science Intern*

*Houston, Texas*

- Led classes of up to 25 students in High School C++, Python, Intro to AI, and Robotics.
- Taught 200+ students and effectively communicated to students with diverse technical backgrounds.

## Project

### Cloud-Enabled Homelab with Infrastructure as Code | *Ansible, AWS, Linux, Prometheus, Grafana*   [Github Link](#)

- Architected a secure, highly-available game server platform on Proxmox, designing a data pipeline that containerized server backups and uploaded them to AWS S3 for off-site redundancy and disaster recovery.
- Deployed a robust monitoring framework using Ansible, configuring Prometheus to gather critical metrics via a Node Exporter and leveraging Grafana for real-time performance analysis and proactive issue resolution.
- Architected network segmentation using VLANs, effectively isolating over 30 devices and 8+ virtual machines.
- Streamlined VM provisioning by developing Proxmox "golden images," reducing server deployment time from 15 minutes to under 2 minutes per instance and improving overall operational efficiency.
- Automated Dynamic DNS (DDNS) updates using an AWS CLI script and cron job for uninterrupted server access.

### Personal Network and Storage Infrastructure | *Docker, RAID, WireGuard, Mesh Network, VPN*

- Engineered a secure home network by configuring a WireGuard VPN on a Firewalla appliance for remote access and security, leveraging an Aruba mesh network that improved download speeds by up to 700% in dead zones.
- Designed and built a 16 TB network-attached storage (NAS) solution using a NASync 4800dpx with RAID 5 for fault tolerance, ensuring data integrity and high availability.
- Produced a suite of self-hosted services using Docker, including Immich for photo management, Plex for media streaming, and Nextcloud for file and calendar synchronization.

## Skills

**Cloud and DevOps:** Azure, AWS, Ansible, Docker, Git, CI/CD

**Languages:** SQL, Python, C++, JavaScript, R

**Networking and Security:** Firewalls, VPNs, System Hardening, Network Security, Troubleshooting

**Operating Systems:** Linux, Windows, MacOS