# JACKSON NACE

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## Skills & Certifications

**Certifications**: Azure Developer Associate (AZ-204), CompTIA Security+, Azure Fundamentals (AZ-900)
**Languages**: Golang, Python, C++, SQL, JavaScript, React.js, Node.js,
**Infrastructure**: Terraform, Ansible, Kubernetes, CI/CD, Docker, Github Actions, Git, Linux
**Other**: Azure, AWS, Prometheus, Grafana, NoSQL

## Education

**University of Houston**                                                      **Graduation Date: December 2026**
*Bachelor of Science in Computer Science*                                                      *Houston, Texas*
- Coursework: Networking, Data Science, Data Structures and Algorithms, Databases, Object Oriented Programming

## Experience

**Derrick Corporation**                                                      **March 2025 – Jan 2026**
*IT & Automation Intern | Power Automate, Dynamics, Docker, Python*                                        *Houston, Texas*
- Architected 40+ cross-functional workflows using Power Automate Solutions, implementing centralized error handling and data validation to ensure 99% accuracy across $20,000 of inventory.
- Deployed a 60TB Linux-based NAS in a RAID 5 array via Docker, managing containerized media backups and ensuring data redundancy for global organizational assets.
- Engineered an automated document generation pipeline to replace a legacy SaaS, implemented logic to dynamically populate Word templates from Dataverse, execute PDF conversions, and manage temporary file cleanup.
- Optimized notification systems by refactoring legacy logic into batch-processing flows, reducing organizational "noise" by 1,000+ emails monthly.

**University of Houston**                                                      **August 2024 – February 2025**
*IT Student Assistant | Excel, BIOS, Active Directory*                                                      *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 updates of 15 computers during a transition to Windows 11.

## Projects

**desktodunks.site** | *Terraform, Azure (Functions, CosmosDB), Python, GitHub Actions, React*          **Github Link**
- Launched a live production serverless analytics website currently serving 20+ monthly recurring users, featuring a state-driven Admin Dashboard for real-time data entry and game management.
- Architected and deployed a multi-service Azure environment using Terraform, managing serverless functions, Cosmos DB, and Static Web Apps via version-controlled HCL to ensure reproducible environments.
- Developed a Python-based API utilizing Azure Functions; implemented a custom header-based authorization layer and managed secrets via Azure Environment Variables to secure NoSQL database operations.
- Designed a NoSQL schema in Cosmos DB optimized for basketball analytics, utilizing strategic Partition Keys to handle game logging and dynamic player leaderboard generation.
- Developed a robust CI/CD pipeline with GitHub Actions that automates frontend builds and backend deployments, maintaining 100% parity between local development and production.

**Hybrid Cloud & On-Prem Homelab** | *Kubernetes, Ansible, ArgoCD, Linux, Prometheus, Grafana*
- Deployed a multi-node Kubernetes cluster on Proxmox using Ansible, implementing Longhorn distributed storage to ensure data persistence and seamless failover for stateful workloads.
- 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.
- Implemented ArgoCD to automate application lifecycles and cluster configuration via GitHub, ensuring a "Single Source of Truth" and eliminating manual configuration drift.

**TheGlowUp.dev** | *Terraform, Golang, Azure, GitHub Actions, Docker*          **Website Link**
- Engineered a full-stack learning platform, automating the provisioning of 6 Azure services with Terraform for a repeatable, single-command deployment.
- Built a secure CI/CD pipeline using GitHub Actions and OIDC, enabling passwordless authentication and automated deployments to Azure in under 60 seconds.
- Integrated OpenID Connect (OIDC) and Managed Identities to eliminate hardcoded secrets, achieving a passwordless authentication flow across the entire cloud stack.