

# PEYTON MALVEAUX

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## SUMMARY

IT graduate (May 2025) with a strong background in cloud systems, automation, and security. Experienced in managing hybrid environments, optimizing workflows with scripting, and implementing secure identity management solutions.

## HYBRID CLOUD WORK EXPERIENCE

### Cloud Services Engineer Intern

*Whataburger Corporate, San Antonio, TX*

*July 2024–Present*

- Managed hybrid domain controllers in Azure and on-prem, ensuring secure synchronizations for 1,000+ users.
- Automated provisioning for 4,500+ accounts weekly via Workday, Logic Apps, and runbooks, reducing errors by 40%.
- Designed SSPR and LCW solutions, cutting IT support requests by 25%.
- Maintained VMware Jumpbox for secure ADUC and domain controller access under Zero Trust principle
- Configured Azure Security Center alerts and action groups to mitigate threats and ensure compliance
- Deployed multiple Azure Arc servers for secure load-balanced Hybrid Worker automation jobs.

### Dev/SecOps Intern

*The Commons XR Startup, REMOTE, USA*

*January 2024–July 2024*

- Developed incident response playbooks and procedures for automated database auditing and schema change notifications with Azure Logic Apps and Azure Monitor, boosting reliability by 90%
- Developed dynamic IAM policies with granular RBAC across Azure environments
- Designed authentication flow integrating token-based authentication, enhancing ISO 27001 compliance.
- Established audit checklist for HIPPA and GDPR compliance, ensuring data protection
- Integrated Azure Active Directory for SSO (single sign-on) and MFA (multi-factor authentication)

### Security Analyst

*Magavi (Non-Profit), San Antonio, TX, USA*

*January 2023–May 2023*

- Conducted security and compliance audits, improving security postures by 85% using best practices.

### Sales Associate

*Under Armour, Grapevine, TX*

*May 2021–May 2024*

- Communicated with customers to resolve customer-service related issues, ensuring satisfaction.
- Interacted with customers and associates to sell products that provide the best solution to their needs.

## EDUCATION

**Bachelor of Science in Computer Science, May 2035**

*University of Texas at San Antonio, San Antonio, TX*

## PROJECTS

### KUBERNETES PRODUCTIVITY APP *POMIGOS*

- Built an interactive productivity tool using Flask and GKE for scalable deployment
- Utilized Kubernetes for container orchestration and Secret Manager for secure key management

### HADOOP CLUSTER ON CHAMELEON CLOUD

- Deployed a Hadoop Cluster on Chameleon Cloud, using MapReduce to process large datasets
- Configured multi-node VMs with optimized HDFS replication and implemented python-based Mapper and Reducer programs for efficient data analysis

### PKI LAB IMPLEMENTATION

- Configured a root Certificate Authority (CA) to issue X.509 certificates and secured a web server using HTTPS/TLS.
- Deployed and tested self-signed certificates and evaluated browser trust configurations.
- Simulated and mitigated Man-in-the-Middle (MITM) attacks to demonstrate the role of PKI

### CACHE SIMULATION PROJECT

- Created a python-based tool to simulate and analyse 360+ cache configurations, achieving a 97% hit rate with 64-byte caches.
- Evaluated critical metrics such as hit rates, access time, and write-back efficiency.

### CUDA PARALLEL PROGRAMMING AND EFFICIENCY ANALYSIS

- Developed parallel sorting algorithms using CUDA, including compare and exchange and bitonic merge and split techniques.
- Achieved 3x speed improvements by transaction memory and operations from global to shared memory

### REVERSE ENGINEERING ENCRYPTION ALGORITHM

- Reverse engineered a decryption program and developed a corresponding encryption algorithm.
- Implemented XOR-based encryption and translated assembly logic to C code for enhanced analysis.
- Utilized tools like IDA Pro, Ghidra, Hex Editor, and Visual Studio Debugger.

## SKILLS

### IDENTITY AND ACCESS MANAGEMENT

- Proficient in Azure AD, Entra ID, RBAC, PAM, MFA, and Zero Trust Security for federal systems.
- Hands-on experience with FICAM IAM designs
- Skilled in building and automating IDAM workflows with PowerShell, Python, and Terraform

### CLOUD AND NETWORKING

- Expertise in Microsoft Azure
- Strong knowledge of VPN Gateways, Load Balancers, and Hybrid AD Synchronization

### CYBERSECURITY

- Experienced in encryption (RSA, XOR), vulnerability management, and risk analysis
- Knowledgeable in ISO 27001, NIST CSF, AAA solutions

### TOOLS AND AUTOMATION

- Skilled with SIEM/SOAR platforms, Docker, Kubernetes, and certificate management (PKI, TLS)
- Proficient in scripting and automation with Python, PowerShell, Bash, and SQL

## CERTIFICATIONS

**CCNA** *Expected 2025*

**SECURITY+** *Expected 2025*

**AZURE CERTIFIED SOLUTIONS ADMINISTRATOR** *Expected 2025*