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 Enterprises (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 2025
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 GPU 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