

Nathaniel Gibbs

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SUMMARY

Recent computer science graduate prepared for entry-level cloud operations supporting secure, reliable infrastructure across Amazon Web Services, Microsoft Azure, and **Oracle Cloud Infrastructure**. Academic practicum and supervised lab work cover compute, storage, networking, databases, IAM, VPCs, VNETs, subnets, security groups, firewalls, DNS, Windows Server, Linux, and **physical data center fundamentals**. Built Terraform **Infrastructure as Code** exercises and automated routine administration with Python, PowerShell, and Shell scripting. Configured Amazon S3 encryption, versioning, lifecycle rules, and bucket policies, then used CloudWatch alarms and log analysis to investigate simulated incidents. Practicum work introduced Nutanix, **VMware Horizon VDI**, application migration, deployment coordination, documentation, cost awareness, and stakeholder communication. AWS Certified Cloud Practitioner eager to grow with experienced cloud engineers and contribute dependable service for colleagues, clients, and communities.

EDUCATION

Bachelor's Degree in Computer Science

2026

University of Kentucky GPA: 3.8

Lexington, KY

Coursework: Cloud computing, operating systems, computer networks, database systems, information security

TECHNICAL SKILLS

- **Cloud Platforms:** AWS, Microsoft Azure, Oracle Cloud Infrastructure
- **AWS Services:** Amazon S3, Amazon EC2, Amazon VPC
- **Azure Services:** Azure Virtual Machines, Azure Storage, Azure Virtual Network
- **Cloud Monitoring:** Amazon CloudWatch, CloudWatch Alarms, Log Analysis
- **Identity and Access:** AWS IAM, Azure IAM, Least Privilege
- **Networking:** VPCs, VNETs, Subnets
- **Network Security:** Security Groups, Firewalls, DNS
- **Infrastructure as Code:** Terraform, Configuration Files, Version Control
- **Scripting:** Python, PowerShell, Shell
- **Operating Systems:** Windows Server, Linux, Linux Services
- **Virtualization:** Nutanix, VMware Horizon, VDI
- **Storage Management:** S3 Encryption, Versioning, Lifecycle Rules
- **Incident Operations:** Alert Triage, Escalation Notes, On-Call Support
- **Migration Practices:** Application Migration, Upgrade Planning, Rollback Procedures
- **Documentation Tools:** Runbooks, Configuration Diagrams, Operating Procedures

SKILLS

- | | | | |
|-------------------------------|------------------|-------------------|--------------------|
| • AWS | • CloudWatch | • Security groups | • Python scripting |
| • Microsoft Azure | • IAM | • Firewalls | • PowerShell |
| • Oracle Cloud Infrastructure | • VPCs and VNETs | • DNS | • Shell scripting |
| • Amazon S3 | • Subnets | • Terraform | |

EXPERIENCE

Cloud Operations Practicum Analyst

May 2026 - Present

University Cloud Operations Practicum

Lexington, KY

- Supports a supervised three-cloud operations sandbox across AWS, Azure, and OCI. Handles resource deployment, network validation, storage security, monitoring, incident documentation, migration analysis, and cost reviews while working with faculty and infrastructure mentors. Delivers clear technical notes that help peers repeat safe procedures.
- Built AWS, Azure, and OCI sandbox resources for **compute**, storage, **networking**, and IAM comparisons, giving mentors a consistent basis for cloud operations review.
 - Provisioned VPCs, VNETs, subnets, **security groups**, firewall rules, and DNS records, then tested Windows and Linux connectivity to isolate configuration issues.
 - Created Terraform configurations for repeatable virtual machine and storage deployment, using version control and peer review for consistent **Infrastructure as Code** changes.
 - Configured Amazon S3 encryption, versioning, **lifecycle rules**, and restrictive **bucket policies**, then verified access through controlled IAM tests and documented findings.

- Set CloudWatch alarms for instance health, utilization, and storage activity, analyzed sample logs, and prepared escalation notes for simulated routine incidents.
- Presented migration, upgrade, and cost-optimization findings to faculty and infrastructure mentors, including recommendations for shutting down idle lab resources.

Cloud Infrastructure Research Assistant

August 2025 - April 2026

University Cloud Infrastructure Lab

Lexington, KY

Supported supervised research into cloud and on-premises operating models through AWS exercises, Nutanix concepts, VMware Horizon VDI workflows, and Windows and Linux administration. Produced migration records, troubleshooting evidence, configuration diagrams, and operating procedures that improved technical handoffs during weekly lab reviews.

- Evaluated **AWS** resources alongside Nutanix concepts and **VMware Horizon VDI** workflows, helping lab mentors compare cloud and on-premises service models.
- Used Python, **PowerShell**, and Shell scripts to collect instance status, disk capacity, and service information across **Windows** and Linux environments for faster review.
- Documented a simulated VMware-to-AWS application migration with dependencies, rollback steps, validation checks, and open risks, supporting safer upgrade planning.
- Tested **storage** access controls and **IAM** permissions through least-privilege scenarios, resolved policy errors with log review, and recorded repeatable troubleshooting steps.
- Compared CPU, memory, and network utilization across lab workloads, identifying practical performance-tuning and resource-sizing options for efficient operation.
- Maintained configuration diagrams, operating procedures, and incident records in a shared repository, supporting weekly technical handoffs and review meetings.

Student Cloud Administrator

January 2025 - May 2025

Cloud Automation Capstone

Lexington, KY

Designed and operated a supervised AWS and Azure capstone environment for a small web application. Covered compute, databases, storage, networking, automation, monitoring, access control, DNS, firewalls, Linux services, recovery, and resource usage. Presented findings through a technical demonstration and written runbook for student reviewers.

- Designed AWS and Azure infrastructure for a small web application, mapping compute, database, storage, and network needs into a practical deployment plan.
- Automated repeatable setup with **Terraform** and **Shell** scripts, reducing manual configuration steps for three student teammates and improving handoff consistency.
- Secured application artifacts in **Amazon S3** with server-side encryption, object versioning, lifecycle policies, and bucket policy testing before deployment review.
- Implemented CloudWatch dashboards and alarms for availability and resource utilization, then refined thresholds after reviewing controlled test failures.
- Investigated simulated **DNS**, firewall, IAM, and **Linux** service issues through structured troubleshooting logs, resolving faults and documenting corrective actions.
- Delivered a technical demonstration and runbook covering deployment, **monitoring**, escalation, recovery, and estimated resource usage for future team use.

PROJECTS

Multi-Cloud Operations Sandbox 📅 2026

Built a learning environment across AWS, Azure, and OCI for comparing compute, storage, networking, IAM, monitoring, and cost decisions. Clear checklists made each test repeatable.

Cloud Migration Runbook 📅 2026

Created a practical migration guide for moving a VMware-hosted application into AWS. Included dependencies, validation, rollback, incident notes, and stakeholder review points.

Secure Object Storage Lab 📅 2025

Configured Amazon S3 protection with encryption, versioning, lifecycle rules, and bucket policies. Tested access paths and captured results in a concise operations guide.

LEADERSHIP & AWARDS

- Dean's List, University of Kentucky, Fall 2025 and Spring 2026
- Outstanding Cloud Automation Capstone Presentation, Computer Science Department, 2025
- College of Engineering Academic Scholarship, University of Kentucky, 2022 - 2026

CERTIFICATIONS

- AWS Certified Cloud Practitioner 📅 2026
- Microsoft Azure Fundamentals Learning Credential 📅 2025
- Terraform Associate Preparation Certificate 📅 2025

PROFESSIONAL AFFILIATIONS

- Cloud Computing Student Group, Peer Workshop Facilitator, 2025 - 2026
- Computer Science Department, Linux and Scripting Peer Mentor, 2025 - 2026
- University Technology Showcase, Cloud Infrastructure Demonstration Team, 2025

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST