

ALLFIN AHSAN



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PROFESSIONAL SUMMARY

DevOps Engineer | System Administrator | Cloud Operations Specialist | Security+ Certified

Experienced infrastructure professional with 5+ years building and automating hybrid cloud environments. I'm passionate about bridging development and operations through Infrastructure as Code, CI/CD automation, configuration management, and smart monitoring solutions. My PowerShell automation helped accelerate user provisioning by 40%, I've built cloud-native monitoring stacks, and designed secure network architectures using modern DevOps practices. With my Computer Science background, I bring hands-on experience in both software development workflows and production operations, specializing in cost optimization and system reliability.

TECHNICAL SKILLS

Cloud & Infrastructure:

- Azure Active Directory, Intune, AWS (EC2, S3, IAM), Google Cloud basics
- Infrastructure as Code (Terraform, ARM Templates, CloudFormation)
- Virtualization & Containerization (Proxmox VE, Docker, Kubernetes concepts)
- VMware Technologies (vSphere, ESXi, vCenter) - Active Learning
- Nutanix Hyper-converged Infrastructure - Exploring
- Network Automation & Security (VLAN segmentation, WireGuard VPN)

DevOps & Automation:

- CI/CD Pipeline Design (Jenkins, Azure DevOps, GitHub Actions)
- Configuration Management (Ansible, PowerShell DSC)
- Scripting & Programming (PowerShell, Python, Bash, JavaScript, Node.js, PHP)
- Version Control & Collaboration (Git, GitHub workflows)

Development & Web Technologies:

- Full-stack Development (HTML/CSS, JavaScript, Node.js, PHP)
- Database Administration (InfluxDB, SQL Server, MySQL basics)
- API Integration and Webhook Automation
- Software Development Life Cycle (SDLC)

Monitoring & Cloud Operations:

- Full-stack Monitoring (InfluxDB, Grafana, CloudWatch, Azure Monitor)
- Log Aggregation and Incident Response
- Performance Optimization and Cost Optimization
- Security Compliance and Vulnerability Assessment

Systems Administration:

- Windows Server & Active Directory Management
- Hypervisor Management (VMware vSphere, ESXi administration)
- Group Policy and Compliance Frameworks
- Disaster Recovery and Business Continuity
- Remote Access Solutions and VPN Technologies

PROFESSIONAL EXPERIENCE

Windows System Administrator & Automation Engineer Titan America — Deerfield Beach, FL | October 2023 – Present

- **Cloud Migration Leadership:** Led our enterprise migration to Azure Active Directory and Intune, improving security posture and enabling modern device management for 500+ endpoints across multiple sites
- **Process Automation:** Developed PowerShell-based Infrastructure as Code solutions and configuration management scripts that reduced user onboarding time by 40% and eliminated manual configuration errors
- **Network Security Engineering:** Implemented micro-segmentation using VLAN automation and WireGuard VPN infrastructure, strengthening our zero-trust architecture approach
- **Monitoring & Observability:** Built a comprehensive monitoring ecosystem using InfluxDB and Grafana with real-time dashboards for infrastructure health and performance metrics
- **Cross-team Collaboration:** Partnered with development teams to streamline deployment processes and implement configuration management best practices

Jr. System Administrator & Infrastructure Specialist Innovative IT Solutions, Inc. — Miami, FL | March 2021 – October 2023

- **Identity & Access Management:** Managed Active Directory environment with automated group policy deployment, maintaining consistent security compliance across multi-site infrastructure
- **Deployment Optimization:** Built a WDS-based imaging pipeline with configuration management tools that accelerated desktop provisioning by 60% while maintaining standardization
- **Remote Infrastructure:** Designed and maintained VPN client configurations with firewall automation, supporting seamless remote work capabilities for distributed teams
- **Knowledge Sharing:** Created comprehensive infrastructure documentation using version control practices, improving team collaboration and knowledge transfer processes

IT Support Specialist & Operations Analyst Tech Solutions Inc. — Orlando, FL | December 2019 – February 2021

- **Endpoint Management:** Provided tier-1 support for 300+ endpoints, developing troubleshooting automation scripts that reduced average resolution time
- **User Provisioning:** Streamlined account creation processes for local and domain environments, implementing self-service capabilities where appropriate

- **Process Improvement:** Contributed to internal knowledge base and runbook development, establishing standardized procedures for common operational tasks

EDUCATION

Bachelor of Science in Computer Science

Relevant Coursework: Software Engineering, Database Systems, Network Security, Systems Programming

CERTIFICATIONS & CONTINUOUS LEARNING

- **CompTIA Security+** (Valid through 2027)
- **Microsoft Azure Fundamentals (AZ-900)** — Completed
- **Microsoft Azure Administrator Associate (AZ-104)** — In Progress (2025)
- **Certified Ethical Hacker (CEH)** — In Progress (2025)
- **VMware Certified Associate (VCA)** — Pursuing (2025)

PROJECTS & LABORATORY EXPERIENCE

Enterprise Virtualization & Hyper-converged Infrastructure Lab

- Currently exploring VMware vSphere environment with ESXi hypervisor deployment, vCenter management, and virtual machine lifecycle automation
- Researching Nutanix HCI solutions including cluster management, data protection, and hyperconverged infrastructure best practices
- Comparing virtualization platforms (Proxmox VE vs VMware vSphere) for enterprise scalability, performance optimization, and cost analysis
- Working on virtual machine templates, snapshots, and automated provisioning workflows across multiple hypervisor platforms

Advanced Network Infrastructure Lab & Automation

- Designed and implemented enterprise-grade multi-VLAN network using Ubiquiti UniFi UDM Pro SE with 5 VLANs for traffic segmentation and enhanced security
- Deployed Proxmox VE virtualization platform hosting multiple VMs including Grafana dashboards, InfluxDB time-series database, and monitoring services
- Implemented dual WireGuard VPN infrastructure with primary and secondary PiVPN servers, dynamic DDNS, and granular routing controls for secure remote access
- Built comprehensive monitoring stack using UniFi Poller, Prometheus PVE exporter, and Grafana for real-time network visibility and host metrics collection
- Achieved zero inter-VLAN leakage through firewall rule automation and developed CLI-based testing framework for security validation

DevOps Engineering Curriculum & Hands-On Labs

- Completing comprehensive KodeKloud DevOps curriculum covering Linux fundamentals, Docker containerization, Kubernetes orchestration, and Jenkins CI/CD
- Built and optimized Docker images using multi-stage builds, managed containers via Docker CLI and Compose for production-ready applications

- Deploying pods, Services, and Deployments on Kubernetes minikube cluster with automated rollouts and rollbacks using kubectl and YAML manifests
- Configuring Jenkins pipelines as code with GitHub webhooks, implementing blue-green deployments and automated testing stages
- Next up: Infrastructure-as-Code with Terraform for AWS resource provisioning and declarative infrastructure management

Cybersecurity & Threat Detection Laboratory

- Completed 20+ hands-on cybersecurity labs in TryHackMe focusing on SOC operations, threat hunting, and incident response procedures
- Developed 15+ custom detection rules and automated patch scripts, reducing alert noise and achieving 50% faster remediation times
- Practiced network enumeration with Nmap, Wireshark, and Netcat; performed privilege escalation using LinPEAS, WinPEAS, and BloodHound
- Gained hands-on experience with SIEM tools (ELK stack, Splunk), Sigma rules, and security automation frameworks for threat detection
- Simulated adversary techniques and red team operations, then developed defensive countermeasures and incident response playbooks

Full-Stack Development & API Integration Projects

- Built interactive web applications using HTML5, CSS3, JavaScript (ES6+), and responsive design principles with CSS Grid and Flexbox
- Developed RESTful APIs using Python Flask with SQLite/SQLAlchemy for CRUD operations, JSON serialization, and database migrations
- Created automated testing workflows and containerized applications using Docker for consistent development environments
- Implemented modern frontend frameworks (React) with component-driven architecture, hooks, and routing for scalable web applications
- Integrated third-party APIs and built custom widgets demonstrating full-stack development capabilities from database to user interface

ADDITIONAL QUALIFICATIONS

- **Programming Languages:** PowerShell, Python, Bash scripting, JavaScript, Node.js, PHP, HTML/CSS, SQL
- **DevOps Tools:** Git, GitHub workflows, Jenkins, Ansible, Terraform, Docker, Kubernetes
- **Cloud Platforms:** AWS (EC2, S3, IAM), Azure (AD, Intune, Monitor), Google Cloud Platform basics
- **Virtualization Platforms:** Proxmox VE, VMware vSphere (ESXi, vCenter), Nutanix (exploring)
- **Problem-Solving:** Strong analytical skills with development mindset applied to operational challenges
- **Collaboration:** Experience working with cross-functional teams in agile environments and DevOps culture
- **Continuous Learning:** Active in DevOps and cloud communities, staying current with emerging technologies

References available upon request