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**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*