

# Kyle Hartson

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## SUMMARY

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**Systems & Cloud Engineer** with a foundational background in Full-Stack development and IT operations. Focused on **Software-Defined Infrastructure** and optimizing the SDLC through **Terraform, Ansible**, and **CI/CD automation**. Experienced in providing technical support and documentation for systems within **regulated environments** (HIPAA, CMMC, GCC High). A proactive learner currently specializing in the **Azure (AZ-900 track)** and **Kubernetes** ecosystems to drive reliability and "Shift-Left" security in resource-constrained teams.

## EXPERIENCE

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### Software Engineer

Dec. 2025 – Present

*Eurofins TestOil*

*Cleveland, OH*

- **Supporting CI/CD and Infrastructure modernization** within an Azure (**AKS/ACR**) ecosystem; authored integration tests to ensure API resilience.
- **Pioneered "Shift-Left" DX initiatives** by implementing (**OpenAPI**) contract-first development; automated type-safe client generation to eliminate architectural drift.
- **Facilitated LIMS architecture** migration from legacy VB6/ASP systems to cloud-native stacks; codified system architecture **HLD and C4 diagrams** to support enterprise security audits.
- **Integrated secure authentication workflows** leveraging **Auth0** and encrypted barcode access to ensure data integrity.

### Partner / Sr. Systems Developer

Nov. 2023 – Present

*Digital Graphene (LLC)*

*Solon, OH*

- **Co-architected a Cloud-Native audio platform** (Azure SWA, Functions, Blobs), achieving a **32x reduction in operational costs** and eliminating legacy server maintenance overhead.
- **Standardized IaC and Security posture** by leading **Terraform** adoption for automated provisioning; performed security header audit to ensure high-grade automated compliance.
- **Facilitated Beta launch reliability** through investigative log analysis and troubleshooting of serverless resources to maintain high availability initial beta.

### Integrations Developer / Project Lead

Jan. 2025 – Nov. 2025

*Propela Tech*

*Cleveland, OH*

- **Modernized AWS Infrastructure** by migrating secrets and implementing **ECS deployments**; implemented **RDS encryption-at-rest/in-transit** and refined **policies** to support data protection requirements in a HIPAA-regulated environment.
- **Architected high-throughput legal workflow solution** integrating disparate systems to process **3,000+ cases**; automated WCAB filing and document generation to reduce latency from **minutes to seconds**.
- **Led the full technical project lifecycle** as sole architect and developer for high-value legal clients.

### Systems Engineer / Network Lead

Jul. 2023 – Jan. 2025

*Root Integrated Systems*

*Independence, OH*

- **Served as Technical Onboarding Lead**, providing system documentation and configuration clarity for hardware deployments within **GCC High Azure** and **CMMC 2.0** regulated environments.
- **Enhanced Cloud Observability** by expanding existing **Splunk** and **Node-RED** data pipelines, enabling real-time monitoring of distributed hardware.
- **Optimized enterprise configuration workflows 2x** via custom **PowerShell/Python** automation; configured **VLAN and QoS** on Netgear devices to ensure high-availability AVoIP performance.

### IT Service Desk Technician

May 2023 – Jul. 2023

*Flynn Restaurant Group*

### Backend Developer Shadow

Jan. 2022 – May 2022

*Findaway Voices*

## INFRASTRUCTURE & AUTOMATION PROJECTS

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### Personal Homelab & Hybrid Cloud | *Proxmox, pfSense, Cisco CLI, Tailscale*

- Architected a high-availability virtualization cluster using **Proxmox** and a **Cisco Catalyst 3850** L3 switch; implemented network-wide security and routing via a **pfSense** edge firewall.
- Established a **Zero Trust Network** using **Tailscale** to secure remote management; configured **Caddy** for automated SSL termination and reverse-proxying across internal services.
- Configured a remote development server on Ubuntu VMs, enabling secure, browser-based IDE remotely over a private VPN mesh.

### Infrastructure-as-Code & CI/CD Pipelines | *Terraform, Ansible, GitHub Actions*

- Developing a **Terraform + Ansible** pipeline to automate the full lifecycle of LXC containers, including Proxmox API provisioning and automated Tailnet node authorization.
- Configured **GitHub Action Runners** with Tailscale integration to enable secure, automated deployments from remote repos to private infrastructure.
- Automated the deployment of containerized Discord bots using **systemd** and **Alpine Linux** re-service scripts for localized process management and logging.

### Cloud-Native Deployment Prototype | *Azure ACR, Container Instances, Functions*

- Engineered a multi-service cloud architecture utilizing **Azure Container Registry (ACR)** and **Static Web Apps**; managed IAM groups and service principal permissions for secure inter-service communication.

## TECHNICAL SKILLS

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**Cloud & Virtualization:** Azure (SWA, Functions, ACR, B2C), AWS (Lambda, RDS, ECS), Proxmox (LXC/VM), Docker

**Infrastructure-as-Code:** Terraform, Ansible, Encore (Go Backend Engine), GitHub Actions (CI/CD), Repomix

**Networking & Security:** pfSense, Tailscale, Cisco CLI, Netgear L3 Switching, Auth0, Okta, Entra ID

**Systems & Automation:** Linux (Debian), Bash/Zsh, PowerShell, Splunk (Observability), Node-RED, Active Directory, Salesforce

**Languages & Data:** Python, Go, C#, SQL (PostgreSQL, Azure SQL, SSMS), Ruby

## EDUCATION

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### Tufts University

*Bachelor of Arts in Chinese*

Medford, MA

*Sep. 2017 - August 2021*

### Flatiron School

*Software Engineering Immersive Bootcamp*

Remote

*Sep. 2021 - Jan 2023*