

Judah Hooper

Infrastructure Engineer

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Profile

Infrastructure Engineer transitioning into DevOps, with hands-on experience building automation, monitoring and hybrid infrastructure.

Background in Linux systems administration, Bash scripting, Ansible and Git, with a strong focus on creating reliable, repeatable systems that minimise manual intervention.

Professional Experience

Junior Infrastructure Engineer

2023–Present

Christians Against Poverty

- Delivered 3rd line support across hybrid Linux infrastructure.
- Contributed to the redesign of web infrastructure from DigitalOcean to AWS, incorporating load balancing, failover capabilities and separation of application and database workloads improving resilience, and availability of services.
- Developed new, and improved existing Bash scripts to achieve varying goals using Git based workflows, including branching, merge requests, and code reviews.
- Built monitoring and alerting using external health checks.
- Rebuilt infrastructure configuration with Ansible.
- Researched, costed and implemented cloud infrastructure solutions including Microsoft Entra ID integration and migration of legacy on-premises file server to Azure hosted solution.
- Performed out-of-hours maintenance and upgrades to ensure system availability.
- Project managed Cyber Essentials Plus attainment, coordinating technical remediations and controls with numerous stakeholders, policy implementation across the estate and audit preparation.

Projects

Ephemeral Compute Platform

Ongoing

- Designing dynamically provisioned container workloads.
- Implementing automated lifecycle management.
- Exploring orchestration with Docker and Kubernetes.
- Building monitoring and observability into the platform.

Continuous Deployment Pipeline

- Built GitHub Actions deployment pipeline.
- Automated deployment to DigitalOcean.
- Managed deployment secrets and environment configuration.

Monitoring Platform

- Built monitoring stack using Prometheus and Grafana.
- Implemented alerting through Healthchecks.io.
- Designed layered internal and external monitoring.

Education

BSc (Hons) Computing & IT (Networking)

Graduating 2027

The Open University

Relevant study: Networking, Linux systems administration, Python, CCNA and DevNet content.

BSc Mathematics with an integrated foundation year (Partially Completed)

The University of Manchester

Modules in: Linear algebra, Calculus, differential equations and cryptography.

Technologies

- **Cloud:** AWS (EC2, ALB), Microsoft Azure, Microsoft Entra ID, DigitalOcean
- **DevOps:** Git, GitHub Actions, GitLab, CI/CD, Infrastructure as Code
- **Infrastructure:** Linux, Bash, Ansible
- **Networking:** TCP/IP, DNS, DHCP, VPNs, VLANs, FortiGate Firewalls
- **Monitoring:** Grafana, Prometheus, Healthchecks.io
- **Security:** Cyber Essentials Plus, SSH, MFA

Outside of Work

Outside work I enjoy building projects in my homelab, reading, playing music, and writing about whatever interests me on judah.sh.