

Shane Winterhalter

+447955889613
shanetwinterhalter@gmail.com
GitHub

Summary

DevOps engineer with extensive experience in delivering complex projects in short timescales. Has a good track record of analysing and resolving business problems. Thrives at working in complex environments and has strong knowledge of a wide variety of technologies, having completed many projects from the design phase through to operations. Has worked in environments which require maximum uptime as well as more flexible development environments

Key Skills

- Programming - Python, Groovy, Powershell, Bash
- Public and Private clouds - Azure, VMware, Openstack
- Infrastructure as Code using Ansible, Terraform, Packer
- CI/CD systems such as GitHub, Jenkins, Gitlab, Gerrit

Experience

September 2022 - Present **Lead Platform Engineer**, *Bank of England*, London.

- Lead engineer on a project to migrate a highly critical piece of infrastructure from on-premise to Azure public cloud covering design, implementation, testing and operational support. The application had to be designed to be fault-tolerant and have sufficient alerting/monitoring to quickly pick up any problems
- Provided support with troubleshooting and resolving issues across the Bank of England's Azure estate covering many items from networking to authentication and
- Drove wider business to adopt full infrastructure-as-code/Devops solutions using Terraform and pushed education/usage of those tools to improve business efficiency and automate standard operational activities

July 2020 - September 2022 **Senior DevOps Engineer/DevOps Engineer**, *Siemens Process Systems Engineering*, London.

- Senior DevOps engineer responsible for all CI/CD systems and development infrastructure, covering a tech stack including Kubernetes, Ansible, Gitlab, Jenkins, Gerrit and Hashicorp Vault
- Focused heavily on converting legacy infrastructure to Infra-as-code, primarily using Ansible for automation. This covered both Linux and Windows estates
- Ran a project to deploy a Kubernetes cluster, first using charmed Kubernetes, followed by a second custom built deployment using Kubeadm with Ansible automation.
- Improved overall infrastructure security by developing and implementing a centralized credential management tool - Hashicorp Vault - which is now used across the entire development infrastructure as well as automated credential rotation for service users
- Responsible for developing, improving and troubleshooting the CI/CD systems, working closely with the developers to ensure ease of use and efficiency. This includes both build and automation scripts (in python or Groovy as part of Jenkins pipelines) and providing extra features with standard systems such as credentials management.
- Implemented an automated release workflow that ensured full auditability of software sent to customers without being a drain on resources

Nov 2017 - Feb 2020 **Infrastructure Architect**, *Huawei Technologies UK*, Reading.

- Designed, operated and managed the cloud infrastructure as part of a 5G network roll-out and network modernisation for a major UK mobile operator.
- Defined the overall cloud architecture to meet SLAs, availability and performance requirements and managed the delivery of different services in a way that minimises costs. Also developed and costed a migration plan to an on-premise cloud
- Led a complex multi-vendor IP migration on the customer live network over several months without any impact to end-users or other critical business services

Education

2013 - 2017 **Physics (MSci Hons), first class**, University of Nottingham.

A four year integrated masters with a 6 month industrial placement project with Teledyne e2v.