

Alexander Mussell

Website: www.alexandermussell.com

Email: alex@alexandermussell.com

SKILLS

- Ansible
- UNIX
- VMware and NSXT
- Python
- React
- Bash
- OpenStack
- Prometheus
- ELK Stack
- Docker
- Version Control
- Load-Balancing technologies
- Firewall technologies
- CI/CD pipelines (Concourse)
- BOSH
- CloudFoundry
- Database technologies (both SQL and NoSQL)
- RabbitMQ
- Proxy services
- On-call experience
- Currently studying for Professional AWS certificate

SUMMARY

Site Reliability Engineer with 3+ years of hands-on experience automating, creating, maintaining, and supporting multi-environment platforms, infrastructure and services at scale - whilst leveraging configuration management tools, CI/CD pipelines, scripting to facilitate testing, and using both Agile and DevOps practices. In my spare time I work on personal software development projects and working towards professional examinations.

WORK EXPERIENCE

Site Reliability Engineer

YOOX Net-a-Porter Group, Full-time

2020-present

Working at YOOX Net-a-Porter as an SRE on the ECommerce Infrastructure team, where we are currently building out both our own Kubernetes cluster onto our underlying VMWare infrastructure, and building our own VIO instance for teams to consume. We also maintain a legacy Puppet system in which I championed a migration to a more modern Terraform and Ansible based solution.

Site Reliability Engineer

Sky Group, Full-time

2016-present

3+ years experience working at Sky Group as a Site Reliability Engineer on the Nimbus team. I maintained, developed, and support Sky's multiple internal, private cloud,

open-source CloudFoundry instances and services. Our largest deployment hosted over 1000 applications, with over 40 teams, and hundreds of users. We also maintained a large legacy platform. With our deployments being hosted on a private cloud, understanding networking and systems design had become an integral part of the position, this was aided by having full access to our own firewalls, load-balancers, and VSphere infrastructure. The largest major project was to design and deploy the underlying infrastructure and networking of a new CloudFoundry instance and migrating to software defined networking using NSXT, turning our entire estate into infrastructure as code. The migration involved the pipelining of all of our deployments and their respective tests, and removing our multi-DC forks to bring us in line with the community.

When I started at Sky, the way in which deployment manifests were created and released was manual and convoluted. Any new services (especially non-standard dedicated services) took multiple weeks to deploy. After I restructured the way we created releases and deployment manifests, we could get out standard deployments in hours, and non-standard configuration deployments out in a couple of days. This saved the team money in engineering cost, and meant we could take on more work, increasing our teams profits.

CURRENT PERSONAL PROJECT

Currently my main personal project is a solo web-development project using React, and Python Flask. The application provides users with a place to take notes and write books. These books can then be published to a public forum (similar to SO) where they can be voted on, comment on, and shared.

EDUCATION

MSci. Computer Science and Artificial Intelligence

2015-2016

University of Nottingham

As a team, we were exploring the implementation of an artificial intelligence system for non-deterministic board games, with a focus on the military board game, Risk.

BSc. Computer Science and Artificial Intelligence

2012-2015

University of Nottingham