Dr. Robbie Mackenzie

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EDUCATION

PhD, Pharmacy   2014
University of Nottingham
Thesis: Computational modeling of drug-polymer nanoparticles

BSc, 2:1, Biochemistry   2010
University of Bristol

EXPERIENCE

Senior Site Reliability Engineer   September 2018 - present
Sky
- Currently working with two separate vendors to design and integrate their Kubernetes-based OTT live streaming platforms.
- Provide on-call support for multiple platforms including Sky's DRM headend, ELK streaming analytics, a VM/hardware streaming platform and the new Kubernetes platform. Recent peak concurrency of 1 million users.

DevOps Engineer   May 2016
Sky
- Implemented automation from the ground up. Puppet, Jenkins and Terraform allowed us to replace physical hardware from vendors with VMs to improve supportability and scale the platform.
- Helped the Streaming DevOps team grow from just me to 10 engineers. This required me to train new recruits using documentation and white board sessions.

Associate DevOps Engineer   October 2014
Sky
- Used Django, Angular, Neo4J and PostgresQL to help create tools to improve Sky's recommendation engines.

SKILLS

Languages: Puppet, Bash, Ruby, Groovy, Python, Ansible, Scala
Software: Kubernetes, Docker, VMware, Terraform, Jenkins, F5 GTM, Varnish, ELK, Prometheus, Grafana, Git, Crucible, Jira, Confluence
Operating Systems: RHEL/CentOS 6 + 7

AWARDS

Sky Believe in Better Award   2017
Awarded to the Streaming Team for exceptional video quality KPIs that year.

2nd Place at Sky Hackathon   2016
Worked in a team to generate bespoke linear channels from VOD content using python and an Ooyala API.

Published academic research paper from my PhD   2015

Most improved at Sky DevOps Bootcamp   2014
Worked in a team to deploy web apps to AWS using git.