

## Dr. Robert Mackenzie

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EDUCATION	<i>PhD</i> , Pharmacy University of Nottingham Thesis: Computational modeling of drug-polymer nanoparticles	2014
	<i>BSc, 2:1</i> , Biochemistry University of Bristol	2010
EXPERIENCE	<i>Senior Site Reliability Engineer</i> Sky	September 2018 - present
	<ul style="list-style-type: none"><li>• Currently working with two separate vendors to design and integrate their Kubernetes-based OTT live streaming platforms.</li><li>• 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.</li></ul>	
	<i>DevOps Engineer</i> Sky	May 2016
	<ul style="list-style-type: none"><li>• 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.</li><li>• 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.</li></ul>	
SKILLS	<i>Associate DevOps Engineer</i> Sky	October 2014
	<ul style="list-style-type: none"><li>• Used Django, Angular, Neo4J and PostgreSQL to help create tools to improve Sky's recommendation engines.</li></ul>	
	<i>Languages:</i> Puppet, Bash, Ruby, Groovy, Python, Ansible, Scala <i>Software:</i> Kubernetes, Docker, VMware, Terraform, Jenkins, F5 GTM, Varnish, ELK, Prometheus, Grafana, Git, Crucible, Jira, Confluence <i>Operating Systems:</i> RHEL/CentOS 6 + 7	
AWARDS	<i>Sky Believe in Better Award</i> Awarded to the Streaming Team for exceptional video quality KPIs that year.	2017
	<i>2nd Place at Sky Hackathon</i> Worked in a team to generate bespoke linear channels from VOD content using python and an Ooyala API.	2016
	<i>Published academic research paper from my PhD</i>	2015
	<i>Most improved at Sky DevOps Bootcamp</i> Worked in a team to deploy web apps to AWS using git.	2014