# Sam
# Norbury

## DevOps Engineer

—

## Skills

—

## Experience

**Sam Norbury**

5 Polruan Road
Manchester, M21 9NR

07988620719
sam.norbury@gmail.com

Experienced DevOps engineer, with strong experience in optimisation of Linux operating systems. Long term interest in application of configuration management and DevOps methodology to traditional web application environments.

**Tools/Technologies Used**

Configuration management - Ansible, Salt, Puppet

Cloud technologies - Azure, OpenStack, AWS, VMWare, GCE

Containers & Orchestration - Docker, LXC, flynn, rancher, heroku

Infrastructure as Code - Terraform, Heat, CloudFormation

Scripting/Development - Ruby, Bash, Python, Golang

Continuous Integration - Jenkins, gitlab-ci, travis-ci

Analytics - ELK, graphite/carbon

**Ministry Of Justice /** DevOps Consultant
04/2017- PRESENT, London

Working on the reform project to modernise large chunks of processes such as Divorce, putting them online and allowing for easier data sharing.

Automated creation/destruction of previously static Azure environment using Ansible/Terraform.

Redesigned existing LDAP setup, adding in account expiry and allowing user creation via custom ansible library.

Built and implemented a sinatra application for jenkins RBAC.

Automated network provisioning (mainly F5 based) with Ansible.

Implemented testing for all existing and new roles using molecule.

Architected and built multiple platforms for new products that required a mix of PaaS and IaaS, again in Azure.

**UKFast.net LTD/** Senior DevOps Engineer/Linux Manager
2011- 2017, MANCHESTER

Implemented entirely new linux installer platform utilising Salt and later Ansible to provision the companies 40,000+ servers. Submitted features

to both ansible/salt projects for bugs/features encountered during build process. Removed human element from launch process where possible, leading to quicker server launch times and drastically reduced error rate.

Involved in the development and release of one of the largest OpenStack based public clouds in the UK.

Developed/launched a 2 petabyte Ceph cluster for use as flexible storage for existing and new cloud platforms.

Architected and built large scale DNS setup to replace existing platform. Designed to be fault tolerant and geographically replicated. Comfortably handles around 1 billion requests a week with plenty of room for growth. Built analytics layer for client information and fault diagnostics.

Revamped old/nonexistent systems for company, moving to gitlab/irc combination for source control and chat, pushing DevOps methodology wider across company in attempt to resolve lack of communication between teams.

Either Ansible or Salt used for all above projects, allowing for quicker expansion in future, easier peer review of build process and potential for disaster recovery.

Strong application of system administration skills throughout duration of role, still carrying out day to day work with clients.

Mentored junior members of the team, helping them get set up on projects of their own and then acted as project manager to help them get into production. Lead to creation of load-testing and PCI/OSSEC orientated products.

Started project to build modern documentation platform for clients/engineers, with aim of freeing up resources for support team from similar/repeated issues and contributing knowledge back to wider community.

Moved from initial support engineer role to manager of support team. Recruited extensively, doubling size of team, at one time being the largest team in the company.

## Certification/Education

Red Hat Certificate of Expertise in Ansible Automation

Red Hat Certified Engineer

Red Hat Certified System Administrator

University of Huddersfield — BSc Secure and Forensic Computing, 2007 - 2011

## External Interests

Setup and ran 200+ member meetup group focussed around Linux, OpenStack and Ceph. Organised speakers from Red Hat and Jon 'maddog' Hall from Linux International.

Member of a local triathlon club, taking part in various triathlons and competitive runs around the country.

Also enjoy getting out to climb/boulder whenever possible.