

PROFILE

Engineering Manager with 7 years of professional development experience and over 2 years leading multiple agile teams in delivering industry leading software and platform infrastructure for global streaming platforms like NOW, SkyShowtime, Showmax and the record-breaking Peacock, which garnered a third of the total bandwidth of USA for an exclusive streaming event. AWS Certified, with extensive experience in full-stack development and shipping highly scalable, low-latency distributed systems iteratively and at speed. Expert in DevOps and Platform Engineering, managing reliable and secure cloud environments with over 1000 servers using Kubernetes, Terraform, and Ansible. Proven ability to drive team performance, foster professional growth and maintain strong stakeholder relationships.

TECHNICAL EXPERIENCE

Sky | London **Engineering Manager** **Mar 2023 – Present**

Lead two teams of agile Scala developers and technical analysts in building and improving the Global Streaming Platform's data processing microservices. Highlights:

- Delivered the full rewrite of a key-value caching microservice to improve architectural design and migrate from GCP Firestore to Bigtable – 300% improvement in performance and over £0.8M in realized savings to date.
- Drove non-functional testing across the Peacock platform for an exclusive NFL streaming event – largest streaming event in US history and a huge, record-breaking milestone within the tech industry.
- Enhanced Horizontal Pod Autoscaling algorithms across all components – significant cost savings and advanced scaling.
- Led and architected the complete rework and simplification of how data feeds are created within the platform – creation time reduced from over a day to less than an hour.

Tech Stack: GCP, Kubernetes, Scala, Kafka, Jenkins.

Sky | London **SRE Lead** **Dec 2022 – Mar 2023**
Site Reliability Engineer **Dec 2020 – Dec 2022**

Responsible for developing and maintaining the cloud-based persistence infrastructure for Sky and Comcast's streaming platforms within Sky's agile SRE OVP (Online Video Platform) team. Highlights:

- Designed and implemented a self-service application for the auto-creation of Cassandra clusters in AWS across all streaming projects – significant time and resource reduction across 10+ development teams.
- Migrated our entire on premises estate (+1000 servers) from VMWare to AWS – +£6M in savings.
- Integrated the whole platform with TOP monitoring platform – Sky's in house Telemetry and Observability Platform based on ELK stack.
- Focused on improving high performance automation including using Terraform, Ansible and Puppet.
- Performed deep troubleshooting and tuning of Linux systems and Cassandra services.

Tech Stack: AWS, Terraform, Ansible, Python, Cassandra, ELK, Jenkins, Akamai.

Sky | London **Associate Systems Developer** **Aug 2019 – Dec 2020**

Develop, deploy and assure reliability of platforms that process hundreds of millions of highly sensitive customer data records daily, originating from both fixed-line and mobile networks. Highlights:

- Introduced CI/CD by leading the design and implementation of several Jenkins pipelines including automated builds, tests and code deployments. Led to zero production downtime.
- Performed release management duties during software go live times.
- Significant development contributions to Sky Mobile and VoIP telephony in Italy.
- Introduced real-time Opsview dashboard monitoring of workflow processes, with ServiceNow web-hook for incident creation – resulted in a significant reduction in on-call incident response time.

Tech Stack: Linux (RHEL/Ubuntu), Java, Python, SQL, Subversion, Jenkins.

Keysight Technologies | Barcelona

Software Engineer

Sept 2017- Aug 2018

Completed a full-stack software engineering internship at a Fortune 100 company, situated in the World Trade Center Barcelona. Highlights:

- Developed a web-based employee training tool to improve the team's training management and allow users to schedule trainings with team members, book training rooms and check employee and meeting room availability from the UI.
- Set up a debugging program with colleagues in Malaysia to review the performance and identify bugs to be fixed prior to release.
- Provided performance enhancements to internal request management tools.

Tech Stack: ASP.NET, HTML/CSS, Javascript, C#, SQL, Git.

EDUCATION

2015 – 2019

Queen's University Belfast

Software & Electronic Systems Engineering with a year in industry Beng – 2:1

2006 – 2013

Rathmore Grammar School

A-Levels – AAB GCSEs – 8As & 2Bs

REFERENCES

Available upon request.