

# Robert Clarke

Software Engineer

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## Summary

Software Engineer with experience across a wide variety of languages, currently focused on platform engineering and observability tooling on Kubernetes. Passionate about writing clean, maintainable code that improves developer experience.

## Skills

### <> Programming Languages

Go, Python, Java, C++, C, Starlark

### 🔧 Technologies

Kubernetes, Grafana, Loki, Tempo, Mimir, Grafana Alloy, ArgoCD, Git, AWS

## Education

### The University of Nottingham

Computer Science with AI

BSc • First Class Honours

September 2019 - June 2023

## Experience

### bp

Software Engineer

Sunbury-on-Thames

September 2025 - Present

Working in bp's IDP Tooling team, maintaining Grafana, Loki, Mimir, Tempo, Alloy etc. for 3.8k users, ingesting 11TB of logs per day and 85 million active Mimir streams.

During a reorganisation period, we successfully migrated the whole stack to another Kubernetes cluster and AWS account, maintained by our IDP.

I continuously train other members of the team, and gave regular one-to-one mentoring sessions to one member.

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### Graduate Software Engineer

September 2023 - September 2025

First placement was in the DevInfra team where we provided and maintained Bazel definitions for the company to use to aid the migration to monorepos. Gained interesting and helpful experience with lots of different builds.

Second placement was a team where we maintained OSS Grafana, as well as a frontend site containing a number of automations to speed up and provide self-service for various processes in bp, including managing Grafana resources.

During this time I led multiple features, executing discovery and implementation. I often delegated tasks to other team members during this process. I also took over leadership of the DevInfra squad for a client project.

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### Software & Platform Development Intern

June 2022 - September 2022

Designed and developed a modular Digital Ethics Impact Assessment form using citizen development tools, backed with a relational database. This was created to replace the existing impact assessment chatbot.

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## Experience

### The University of Nottingham

Support Technician

November 2021 - June 2022

Maintaining the servers for the Computer Science department, as well as imaging and supporting devices given to staff and PhD students, and devices in computer labs.

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IT Support Tutor

September 2021 - February 2022

IT Smart Bar support for the university, helping students and staff with various IT enquiries about university systems.

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Full-Stack Development Intern

June 2021 - September 2021

Designed, developed and tested an extensible system for programmatically generating modular plasmids. Coded a custom WordPress block and plugin, to allow site administrators to modify, add and delete genetic modules.

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### UK STEM

The University of Hull

Assistant Electronics and Programming Teacher

July 2018 - August 2018

Supported and taught hands-on electronics and programming to children between the ages of 7-12.

## Projects

### Home Lab

In my spare time I manage a kubernetes cluster at home, using ArgoCD for GitOps. I have a self-monitoring setup using Grafana, Loki and Prometheus.

It's currently hosting 31 ArgoCD applications, including services that I use daily.

<https://github.com/RobertClarke64/k8s-homelab>

## Interests



Self-hosting /  
homelab



Home automation



Hiking



Cooking



Coffee & Latte art