

# CiARAN MCKEY


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## EXPERIENCE

### Engineering Lead

 **Darktrace | Cyber Security | 3000 Employees | Global**

 April 2021 - Present

 Cambridge, UK

#### Overview

Started on existing offerings within the SaaS space. Wrote the first line and much of the application code on the core Cloud Security product offering for AWS. Took it to market with a team that grew to 11 engineers while managing the production cycles, production debugging, client calls and supporting teams across devops, support, product development and internal systems to ensure smooth operation during release. Got promoted to Engineering Lead.

#### Responsibilities

- Moved from working on a monolithic based architecture to a containerised microservice architecture. In doing so we built standards within Darktrace for further microservice development.
- Architect, build and deploy distributed systems on Kubernetes to serve the backend of the product offering.
- Build authentication mechanisms to ensure customer data separation in production environments using JWT based authentication.
- Build customer provisioning pipelines to ensure a quick and secure onboarding process.
- Manage production release cycles.
- Talk with customers to help deploy the product and debug issues.
- Design and build a distributed analytics engine for showing realtime dashboards and dynamically generating reports across many distributed deployments.
- Working with UX and UI to create a library of reusable components for faster development and iteration.
- Manage priorities, assign tasks and deadlines to team members and all other clerical work associated with management.
- Build standardised flexible CI/CD pipelines to ensure fast release cycles.

### System and Backend Developer

 **Play Well for Life | EduTech | 10 Employees | Regional**

 Jan 2020 - Apr 2021

 Surrey, UK

#### Overview

Quick iteration development building MVP's for product ideas to take to investors and test on potential customers. Individual responsibilities included designing system architecture, building CI/CD pipelines, building provisioning pipelines, writing application code, deploying infrastructure and ensuring uptime.

#### Responsibilities

- Developed and deployed containerised microservices on AWS ECS
- Developed Java based microservice with an SQL datastore
- Worked with microcontrollers to develop hybrid system
- Built CI/CD pipelines
- Built Customer Portal with Bubble.io

## EDUCATION

 BScEng Hons Computer and Electrical Engineering

**University of Cape Town**  
**Grade: 2.1**

 2016 - 2019

 Cape Town, South Africa

## PROFICIENCIES

### Development

Python    Javascript    Docker    Linux

Golang    ReactJS    Gitlab CI/CD

Github Actions    Postgres    Redis

Bash    Git

### DevOps

AWS - SQS, Lambda, DynamoDB, EKS, S3 etc.

Cloudflare    Kubernetes    Helm

FluxCD    ArgoCD    Terraform

Prometheus    Grafana





OpenTelemetry

### Soft Skills

Communication    Management

Collaboration    Flexibility

## HOBBY PROJECTS

-  **Stock Trading Bot | [More Info](#)**  
Developed a stock trading bot using Alpaca Trading Webhooks and API's, Python, Postgres and Redis. Uses websocket connections to ensure speed of transactions.
-  **Self Hosted Kubernetes | [More Info](#)**  
Managed and Deployed a baremetal Kubernetes cluster, using FluxCD, Terraform along with many CRD's for supporting systems within the cluster.
-  **Info Vault - UI Included | [More Info](#)**  
A modern, open-source solution, centralized platform solution for securely uploading, organizing, and querying personal documents using agentic AI-powered insights and search capabilities, while keeping your files secure and accessible.
-  **Auth API - UI Included | [More Info](#)**  
Developed an Identity Provider, hosting public keys, issuing JWT token, as well as session based authentication with cookies.