

Ciaran Mckey

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EXPERIENCE

Engineering Lead

Darktrace

Jan 2024 - Present

Cambridge, UK

All technologies from the previous role still apply.

Golang

Rust

ReactJS

- Running a team of 3 set to grow to 8 by the end of year.
- Architect, Build and Deploy customer facing production multitenant applications on Kubernetes.
- Working cross discipline with product, UI, design and other stakeholders to meet business objectives when developing customer facing applications.

Software Engineer

Darktrace

Apr 2021 - Jan 2024

Cambridge, UK

Python

Asyncio

Concurrent Futures

PyTest

Uvicorn

FastAPI

SQLAlchemy

Alembic

Celery

Pydantic

PostgreSQL

Redis

Docker

Kubernetes

GitLab CI/CD

Git

AWS DynamoDb

AWS RDS

AWS EC2

AWS EKS

AWS ECS

AWS SQS

AWS IAM

AWS WAF

AWS S3

AWS CloudTrail

AWS Cloudformation

AWS Lambda

AWS API Gateway

AWS Parameter Store

AWS Secrets Manager

- Architect, Build and Deploy customer facing production single tenant product applications on Kubernetes.
- Build Authentication mechanisms to ensure customer data separation in production environments.
- Build customer provisioning pipelines.
- Help solidify company microservice development best practices within Darktrace.
- Manage production release cycles.
- Talk with customers to help them deploy and debug issues.

System and Backend Developer

Play Well for Life

Jan 2020 - Apr 2021

Surrey, UK

AWS ECS

AWS EC2

Java

Python

SQL

Bubble.io

GitLab

Linux

- Developed and deployed containerised microservices on AWS ECS

EDUCATION

BScEng Hons Computer and Electrical Engineering

University of Cape Town
Grade: 2.1

2016 - 2019

Cape Town, South Africa

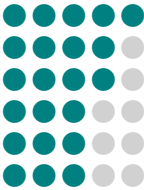
PROFICIENCIES

All skill levels are subjective

Development
Python
Docker
Application Architect
Linux
Golang
ReactJS
Rust



DevOps
AWS
Kubernetes
System Architect
Helm
FluxCD
Terraform



Soft Skills
Purposefully left unrated

Communication
Management
Collaboration



- 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

HOBBY PROJECTS



Stock Trading Bot.

I have built out a stock trading bot using Alpaca Trading Webhooks and API's, Python, Postgres and Redis. This bot is deployed on Kubernetes through my homelab IDP.



Homelab Internal Developer Platform.

I have been building out my homelab for approximately a year and have ended up with what is essentially an internal developer platform built on kubernetes for the quick deployment of applications. Using mostly open source tooling, as well as a home grown Identity Provider that I built with the aim of understanding in depth OIDC and JWT authentication.

For architecture diagrams and more please go to <https://docs.thewatergategroups.com>

HOBBIES



Rock Climbing



Traveling



Coding