CIARAN MCKEY

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○ github.com/thewatergategroups

EXPERIENCE

Engineering Lead
D Darktrace

📅 Jan 2024 - Present   📍 Cambridge, UK

❗All technologies from the previous role still apply.
Overview
Leading a team that has broken off from the original Cloud Security team to further Research and Development outside of the core product offering.

Technologies

| Golang | Rust | ReactJS |

Actions
- Architect, build and deploy all facets of production applications on Kubernetes to serve new product services.
- Working with Product teams to decide on developement priorities and assigning tasks and deadlines to team members based on objectives
- Working with UI and UX teams to built new features out in a way that is consistent with the rest of the product and provides value to custmers over and above existing offerings.

Software Engineer
D Darktrace

📅 Apr 2021 - Jan 2024   📍 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 Development to ensure smooth operation during release.

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. Ranging from fault tolerance, scaling, resilience, security, CI/CD and customer provisioning and deployment pipelines.

Technologies

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

EDUCATION

🛡 **BScEng Hons Computer and Electrical Engineering**
University of Cape Town
Grade: 2.1

📅 2016 – 2019   📍 Cape Town, South Africa

PROFICIENCIES

Development
Python	●●●●●
Docker	●●●●●
Application Architect	●●●●○
Linux	●●●○○
Golang	●●●○○
ReactJS	●●○○○
Rust	●●○○○

DevOps
AWS	●●●●●
Kubernetes	●●●●○
System Architect	●●●●○
Helm	●●●●○
FluxCD	●●●○○
ArgoCD	●●●○○
Terraform	●●●○○

Soft Skills
❗Purposefully left unrated

Communication	○○○○○
Management	○○○○○
Collaboration	○○○○○

Actions

- 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.
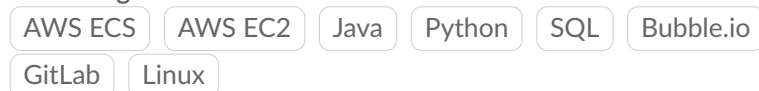
System and Backend Developer

Play Well for Life

📅 Jan 2020 - Apr 2021   📍 Surrey, UK

Overview

Technologies

AWS ECS   AWS EC2   Java   Python   SQL   Bubble.io
GitLab   Linux

Actions

- Developed and deployed containerised microservices on AWS ECS
- Developed Java based microservice with an SQL datastore
- Worked with microcontrollers to develop hyrid 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 appoximately 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**