

# Adrian Fernandez

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Engineering lead with extensive consulting experience in multiple fields and industries. Strong background in providing digital transformation, backend and infrastructure solutions and cloud best-practices in highly regulated environments..

## **Technical Skills**

- Programming, Scripting & APIs: Python, Go, Bash, Powershell, SQL.
- Data: Airflow, Langchain, DynamoDB, MongoDB, RDS, Postgres, RedShift, Elasticsearch.
- Infrastructure: AWS, Azure, GCP, Terraform, Pulumi, CI/CD (Jenkins, GH Actions, AZ DevOps, Buildbot), Docker, Kubernetes, Ansible, Serverless, Helm & GitOps.

## **Experience**

### **March 2023 - July 2024 | Manager - Engineering & Applied AI at Airwalk Reply**

Oversaw the technical direction for a number of initiatives based on LLMs with RAG. Delivered data platform solutions (optimisation, architecture and security) for a number of clients running kubernetes on AWS & Azure. Led the on-site functions to enable a Azure digital transformation project for a large client in France consisting of discovery, data migration and hardware transition. Managed a group of 5 engineers during this period.

### **April 2021 - March 2023 | Data Engineering Lead at Airwalk Reply**

Hired to lead the initial data engineering capability for the consultancy. Designed and delivered a data engineering & ML graduate programme curriculum to upskill new and existing graduates. Engaged with prospective clients in pre-sales activities and implemented and guided data platform solutions for a number of clients seeking to move to event-driven architectures. Delivered a number of AWS and Azure infrastructure projects with DevSecOps best practices.

### **October 2019 - April 2021 | Senior DevOps Engineer (Contract) at Airwalk Consulting**

Public sector greenfield project (UK Parliament) where I developed the initial implementation of both IaC (Terraform) tooling for a multi-subscription Azure based platform and a consolidated observability (Analytics / SIEM) solution based on Elasticsearch. Built and maintained a kubernetes + serverless platform for event-driven architecture. Designed and engineered an encrypted conferencing solution with auto-scalable capabilities and SSO integration for secure communications across government bodies.

### **June 2018 - July 2019 | Senior DevOps Engineer (Contract) at HSBC**

Developed a Django + Serverless based application for cloud management, automation and compliance for all AWS estate in the bank. Created multiple tools & libraries (Python, Terraform & NodeJS) for large scale multi-account AWS management, deployment automation & broader AWS development. Provided general architecture and development best practices in DevOps and IaC and worked hands-on with multiple internal application teams to ensure a successful cloud journey.

### **April 2018 - May 2018 | Senior Engineer (Contract) at Clarks**

Short engagement to provide guidance around cloud architecture and infrastructure best-practices. Worked hands-on with the infrastructure and application teams to assess and prepare for cloud migrations to AWS.

### **February 2018 - March 2018 | Data Engineering & DevOps (Contract) at Luengo**

Cloud architecture, engineering and consultancy services to a major dental specialist for a patient CRM backend redesign with cloud-native components, integration and compliance with the NHS and the development of an online virtual classroom for medical training under GDPR.

### **September 2017 - February 2018 | Data & Risk Analyst at iwoca**

Model development for loan default prediction, general business analytics, lead generation and data visualisation for other teams with Python using a common stack for time-series analytics and machine learning (pandas, sklearn, scipy, seaborn).

### **February 2016 - September 2017 | Cloud Systems Developer at Cloudreach**

Architecture and development of diverse AWS cloud based solutions majorly for Fortune 500 companies. Python backend development for internal systems, tooling and event-driven applications. Extensive experience designing serverless APIs and ETL pipelines. IaC (Ansible, Terraform). Heavy usage of NoSQL databases (MongoDB, DynamoDB), general usage of modern SQL systems (MySQL, RedShift). DevOps best practices implementation.

### **Significant Projects**

- British Petroleum Cloud Transformation Program (Backend and platform development).
- Discovery Communications, Inc. (Migrations architect and developer – moved 130+ workloads to AWS).
- Restoration & Renewal (UK Parliament). Developed the infrastructure and SIEM capabilities for a multi-subscription environment to enable hundreds of users in less than 6 months.

### **Education**

2014 – 2015: Imperial College London - MSc. Bioengineering, Neurotechnology

- Optogenetic feedback control system for online decoding of neural populations in-vivo.

2010 – 2014: Brunel University London - BEng. (Hons.) Mechanical Engineering

- Design and CFD simulation of a new generation percutaneous mechanical aortic heart valve.

### **Certifications**

- AWS Certified Solutions Architect - Professional
- AWS Certified Machine Learning Engineer - Associate
- AWS Certified Data Engineer - Associate
- Azure Certified Data Engineer

### **Languages**

English (Native), French (Native), Spanish (Native), German (Conversational)