

# ACHILLEAS ATHANASIOU FRAGKOULIS

## Staff ML Platform Engineer

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## EXPERIENCE

### 🏠 Satalia (WPP) Staff ML Platform Engineer

📅 May 2025 – Ongoing    📍 Remote, UK

- Infra lead (across teams of 25) on a unified and standardized development platform and runtime environment for agents. Supporting a £120M investment in creating agentic workflows (**A2A**, **ADK**, **MCP**)
- A self-serve Platform as a Service, built with IaC (Terraform), running on k8s (serverless w. **Knative**) & service mesh (**Istio**)
- LLM monitoring and observability (langfuse), **governance** (LiteLLM proxy server), **compliance** (Llama Guard & Prompt Guard)

### 🏠 Satalia (WPP) Senior Machine Learning Engineer (Platform)

📅 Apr 2024 – May 2025    📍 Remote, UK

- Productioned **GenAI** research lab PoCs (ImageGen, LLM and multimodal, **RAG**), predominantly working on a **fastAPI** & **LiteLLM** stack, deployed on k8s clusters with highly parallelized workloads across **GPUs**
- Delivered **agentic** process automation and **AI-assisted** workflows scaling to 1000s of users, managing the lifecycle of projects.
- **Technical lead** on MLOps, setting best practices with educational workshops, day-to-day coaching of team members, publishing technical guidance, standardization via templates, and reusable internal libraries
- Identified cross-org needs and created templates for **CI/CD pipelines** (testing, deployments, evaluations with synthetic data) and internal libraries based on **OpenTelemetry (OTEL)** to unify logging, monitoring and observability

### 🏠 FLYR Hospitality Senior Machine Learning Engineer

📅 Dec 2022 – Feb 2024    📍 Remote, UK

- Developed & maintained forecasting models in production. Doubled the **forecast horizon**, ingested **exogenous features** from 3rd party data sources
- Responsible for **monitoring** - **Elastic** & **Kibana** model output, drift, data quality, KPIs and addressing triage tickets from >1,000 customers
- **Productionized** a cancellations model - through experimentation with various architectures - **XGB**, **GARCH**, **Time Series Transformers** and framings

### 🏠 Beat Senior Machine Learning Engineer

📅 Sep 2021 – Dec 2022    📍 Remote, UK

- Designed & built a flexible & scalable experimentation platform. **Leading** a data team of 4 (2xDEs, DS, DA) and owning the **data product**
- Developed solutions for automated analysis pipelines for A/B/n, **switchback experiments** & **hold-outs** (supporting 100s metrics w. cuts - OLAP cube)

### 🏠 Rimo3 Machine Learning Engineer

📅 Mar 2020 – Aug 2021    📍 Remote, UK

- Prototyped a **computer vision** - **ResNet50** based solution for automated software testing, deployed as a side-car micro-service (FastAPI) for a CLI tool

### 🏠 Expedia Group - 🏠 Hotels.com Data Scientist

📅 Jul 2018 – Mar 2020    📍 London, UK

- **Time-series** analysis and simulations of Thompson Sampling (Bayesian) **Multi-Armed Bandit** to assess impact of seasonal patterns on convergence. Designed a transformer to detrend signals and correct non-stationarity
- Implemented **Bayesian A/B test** methods (informed priors, weighted likelihood, ROPE) resulting in reduced test duration and increased interpretability

## EDUCATION

### University College London (UCL)

MSc Business Analytics

📅 Sep 2017 – Sep 2018

- **Social network analysis & community detection** to explore factors driving behavioural change in weight loss interventions using wearables
- Developed a **predictive model** for artist success to curate new artists for promotion on highly performing Spotify playlists (PCA, XGBoost & SVMs)

### Imperial College London & CERN

Experimental Particle Physics Researcher

📅 Oct 2013 – Sep 2014

- Developed an automated **multivariate analysis** framework in C++ for tuning a binary classifier to accept/reject signal/noise events
- Explored **Linear Discriminant Analysis** and **Boosted Decision Trees** approaches to identify important predictors leading to ~8-12% signal efficiency gains

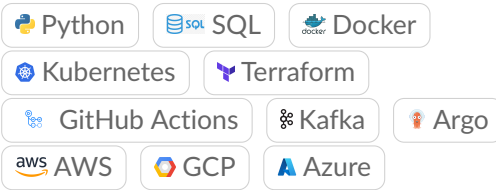
### Queen Mary University of London

BSc Physics (Honours)

📅 Sep 2010 – Jul 2013

- Optimised a  $\chi^2$  function for model fitting with extraction of probability density functions

## TECH STACK



## PUBLICATIONS

### 📖 JOURNALS

Arnold, T.et al.2014. Structure of normal-alkanes adsorbed on hexagonal-boron. J. Phys. Chem.

## CERTIFICATIONS & AWARDS

🏆 **Scrum Alliance**  
Scrum Product Owner

🏆 **Guinness World Record Holder**  
Virgin Kitesurfing Armada 2016 UK

🏆 **Int. Kiteboarding Organization**  
Kitesurfing Instructor Level 1