

ANDREW HEGGS

Python / Full-Stack Developer | Data Science & AI

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 Sulby, Isle of Man

PROFILE


A solution-driven software developer and data scientist, leveraging over 24 years of experience across board-level leadership, luxury asset management, corporate operations, and private wealth.

Andrew combines a strategic business perspective with decision-science principles to effectively scope, communicate, and deliver robust full-stack engineering solutions.


The rapid evolution of AI and technology catalysed his move into tech. Andrew's engineering expertise includes building secure (JWT-authenticated), dynamic front-end applications with modern JavaScript frameworks (React), developing scalable full-stack applications using Python (Django) and Node.js (Express), and designing and implementing reliable databases (MongoDB, SQL).

His key data science competencies encompass Python, SQL, machine learning (scikit-learn, XGBoost), deep learning (TensorFlow, Keras), data visualisation, and deploying AI models via cloud-based MLOps pipelines (GCP, Docker, FastAPI).


CORE TECHNICAL SKILLS

 **Languages & Query** – Python, JavaScript, SQL

 **Frameworks & APIs** – Django · FastAPI · React (Vite) · Express/Node REST / JWT / OAuth2

 **Data & ML**–Pandas · NumPy · scikit-learn · TensorFlow/Keras · XGBoost · Hugging Face

 **MLOps & DevOps** – Docker · MLflow · GitHub Actions CI/CD · Google Cloud Platform (Vertex AI, BigQuery)

 **Datastores**–PostgreSQL · MongoDB · SQLite · Google BigQuery

 **Tooling** – Git · Jupyter/Colab · Streamlit · Netlify · Heroku

SELECTED PROJECTS

Payment Orchestration ML Fraud Monitor (*commercial pilot*)

Python| scikit-learn| XGBoost| GCP Vertex AI

- Built proof-of-concept ML models detecting fraudulent card transactions, focusing on high-recall classification of imbalanced datasets.
- Designed cloud-agnostic data-lake architecture; set up “Fraud Lab” sandbox for repeatable experiment tracking and scenario testing.

NeuroPredict – EEG Tumour Classifier (*team capstone*)

Python| TensorFlow/Keras | FastAPI | Docker | GCP | Streamlit

- End-to-end ML pipeline from data ingestion to GCP-hosted inference; hybrid LSTM-Rocket + XGBoost model reached 86.4% balanced accuracy.
- Deployed as containerised API with Streamlit UI for users’ review.

Assetec – Stock-Portfolio Web App (*solo*)

React (Vite) | Django REST | PostgreSQL

- Secure JWT-auth full-stack app tracking holdings & real-time valuations; back-end tests + CI deployed to Heroku / Netlify.
- Implements role-based access and delivers dynamic portfolio analytics.



CrewLink – Job-Application Manager (*solo*)

MongoDB, Express, Node (MEN) stack | JWT | Netlify



- Serverless Node functions + MongoDB CRUD for superyacht crew; responsive EJS views & token-based auth.

EDUCATION

Le Wagon – Data Science & AI (BCS accredited)

 Jan – Mar 2025 |  In person & remote
400 hrs immersive bootcamp covering statistical inference, advanced ML/DL, and MLOps with Docker, FastAPI & GCP.

General Assembly – Software Engineering

 Jun – Aug 2024 |  In person & remote
600 hrs full-stack programme: JavaScript, React, Node, Express, Django, PostgreSQL/MongoDB, TDD and algorithms.

University of Lancaster – BSc Hons Geography



 1999 – 2001 |  UK.

CERTIFICATIONS



- Professional Certificate in AI & Big Data – (Le Wagon [RNCP38616](#))
- IBM Data Science & Data Fundamentals



SELECTED EXPERIENCE

Co-Founder & Executive Director - Superyacht Standard

 Dec 2018 –Present |  Isle of Man
Built and leads a virtual advisory firm for private and institutional clients controlling maritime & aviation assets. Recently delivering a turnkey luxury asset strategy for a leading financial services aviation and yachting division. Praised for exceptional quality, and meaningful impact on business development, team education, and strategic direction.

Relationship Lead / Board member SPV's - Equiom Group

 Nov 2021 – Apr 2024 |  Isle of Man
Relationship lead and exec. director for a broad portfolio of luxury asset owning companies. Overseeing corporate and financial regulated activities and primary liaison to UBO's & family offices. Celebrated for developing efficient, client-focused financial management integration solutions.

UAT & Integration Lead - Barclays Wealth |  Mar 2005 – May 2006 |  UK, Channel Islands, IOM

Led client-side UAT during development of an online banking platform alongside Accenture. Multi-site implementation lead throughout warranty releases. Consulting with application design teams and affected department heads during integration and launch. Awarded the gold Eagle Achievement for exceptional commitment and project excellence.

PASSIONS

Contributing to ML projects | Soft skill mentoring to boot-camp grads | Sailing, outdoor pursuits, TM.

FURTHER INFORMATION

Expanded career summary, certifications, qualifications and references available on request.