ANDREW HEGGS

Python / Full-Stack Developer | Data Science & AI

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PROFILE

A solution-driven software developer and data scientist, passionately creating intuitive, data-led products to enhance productivity and drive business success.

Inspired by the rapid pace of technological innovation, strategically leveraging 24 years of corporate leadership, luxury asset management and private wealth experience with fresh engineering skill.

Projects feature end-to-end solutions, from database design to UI/UX and production deployment. Utilising Python, React, Django, TensorFlow, Docker, and Google Cloud Platform to deliver machine learning and full-stack applications.

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.

Further projects: SeaBay MERN marketplace, Kaggle projects – links on GitHub.

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

RECENT PROFESSIONAL & TECHNICAL 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. Direct the structural, financial and operational management for a virtual superyacht & business-aviation support and advisory firm.

Relationship Lead / Exec. Director SPV's - Equiom Group | 📅 Nov 2021 – Apr 2024 | 📍 Isle of Man

Oversaw regulatory compliance for superyacht and aircraft SPV's; primary liaison to UBO's & family offices, refining digital reporting pipelines.

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

Led client-side UAT for a new online banking platform alongside Accenture. On-site implementation lead throughout warranty releases. Consulting with application design teams and affected department heads during integration and launch.

PASSIONS

Exploring Kaggle/open-source data sets | Contributing to ML projects | Soft skill mentoring to boot-camp grads | Sailing & outdoor pursuits.

FURTHER INFORMATION

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