ANDREW HEGGS

Full-Stack Developer | Data Science & AI

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PROFILE

An innovative, **agile**, results-oriented software developer and data scientist. I combine strategic **business perspective** with **decision-science principles** to scope, **communicate**, and deliver robust full-stack engineering solutions. Designing secure, dynamic front-end apps, building scalable systems, reliable databases, and data-driven AI models with cloud-based MLOps.

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 transactions, focused on **high-recall** and **imbalanced datasets.**
- Designed **cloud-agnostic** architecture; set up "Fraud Lab" **sandbox** for repeatable experiment and scenario testing.

NeuroPredict – EEG Tumour Classifier *(team capstone)*
Python | Tensorflow | Keras | FastAPI | Docker | GCP | Streamlit

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

Assetec – Stock-Portfolio Web App *(solo)*
React (Vite) | Django REST | PostgreSQL | JWT | Netlify

- Implemented a secure JWT-auth full-stack app tracking holdings & real-time valuations; **back-end tests** + CI deployed to Heroku / Netlify.
- Implemented **role-based access** and 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 authentication.

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, SQL, PostgreSQL/MongoDB, CI/CD.

- **University of Lancaster – BSc Hons Geography**
1999 – 2001 | UK.

RECENT CERTIFICATIONS

- Professional Certificate in AI & Big Data (RNCP38616 | EQF level 6)
- IBM Data Science & Data Fundamentals

SELECTED EXPERIENCE

Co-Founder & Executive Director - Superyacht Standard | Dec 2018 –Present | Isle of Man

Built and directs a virtual advisory firm for **private and institutional clients** controlling luxury assets. Recently delivered a 3-month, turnkey, luxury asset strategy for a leading financial services firm. **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 client liaison**. Celebrated for developing an efficient (50% increase), client-focused, financial management integration solution.

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 (100+ users), during integration and launch. Gold Eagle **achievement awarded** for exceptional commitment and project excellence.

PASSIONS

Open source 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.