Robert Hawley, MSci

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https://robertkhawley.github.io/portfolio/
robertkhawley

A proficient data analyst and developer with a strong foundation in Python and SQL. I bring a unique blend of academic, professional, and project-based experience. My data analyst experience at C365Cloud, coupled with an ongoing personal project leveraging data from football matches, showcases my practical application of data. With a first-class master's degree in physics, I am ready to contribute my analytical competencies to a forward-thinking organisation.

SKILLS

Python	SQL	SSRS	Excel
MATLAB	T-SQL	SSMS	Tableau
C	Git	WordPress	HTML
CSS	JavaScript	jQuery	AWS
GitHub	Linux	Data Cleaning	ETL/ELT
Web Scraping	Data Visualisation	CI/CD	Web Development
Model Selection	Data Integration	Data Modelling	Feature Engineering
Hyperparameter Tuning	Predictive Modelling	Cloud Computing	Data Mining

WORK EXPERIENCE

C365Cloud

(Aug 2021 - Mar 2022)

SQL Data & MI Analyst

C365Cloud is a 'Proptech' SaaS product that enables organisations to proactively manage their statutory compliance obligations.

- Constructed and maintained client-specific **SSRS dashboards** for targeted **business intelligence**.
- Utilised **SQL/T-SQL** for comprehensive **data integration**, automation and building dashboards.
- Provided crucial **technical support** and resolved system-related client issues.
- Built and amended **data capture** forms in the system and mobile platforms.
- **Quality-checked** deployments and ensured the system met required standards.
- Worked closely with the project team to ensure complete and on-schedule **onboarding of clients.**
- Developed an automated solution by writing **Python** scripts to recover cryptic data, boosting operational efficiency and exceeding client expectations.

https://c365cloud.co.uk/

PROJECTS

The FPL Prophecy

(Aug 2021 - Present)

A Fantasy Premier League analytics project

The FPL Prophecy is a football data analysis platform, which aims to provide insights and projections to help people make informed decisions about their fantasy teams.

- Initiated, planned, and executed a significant data-focused project that aimed to **analyse and forecast Fantasy Premier League outcomes**.
- Extensively utilised **Python** to develop an **Extract, Transform, Load (ETL) pipeline**, blending data from the official FPL API with additional data sourced from two websites.
- Developed a custom **fuzzy matching algorithm** and automatic data cleaning capabilities.
- Trained and tested various **mathematical models**.
- Utilised **machine learning** algorithms such as **Random Forest** and **XGBoost** on historical data.
- Developed a **dynamic website** to present the project's results.
- Effectively managed the project using **Git** for version control and **AWS** for cloud-based services.
- This project illustrates my capability to handle complex, independent projects and solve real-world problems.

https://fplprophecy.com

EDUCATION

The University of Nottingham

First Class Honours

Master of Science (MSci), Physics with Theoretical Physics

- Specialised in **computational physics and mathematical modelling**, demonstrating a strong grasp of quantitative analysis and problem-solving techniques.
- Utilised **MATLAB** to simulate and analyse accurate physical models.
- Participated in a year-long **collaborative research project**, highlighting **teamwork** and **project management** skills.
- Excelled academically, scoring exceptionally well (85%+) in seven modules during the second and third years, demonstrating consistent performance and strong dedication.
- Enhanced technical writing skills by using LaTeX for preparing high-quality scientific papers.
- Gave several presentations on advanced physics topics, showcasing the ability to articulate complex concepts in a digestible format, an essential skill in **communicating findings**.

https://www.nottingham.ac.uk/physics/