

JACK CAVANAGH

DATA ENGINEER

Career changer with a scientific background. After a career in hospitality, I have pursued a technical career studying both software and data engineering. I am comfortable working in both a full stack capacity and data focused roles.

TECHNICAL SKILLS

Languages: Python, JavaScript, HTML, CSS

Frameworks: Django, Flask, Bootstrap, JQuery

SQL: SQL Server, MySQL, PostgreSQL

NoSQL: MongoDB

Version Control: GitHub, GitLab

Analytics: Pandas, NumPy, PySpark, Azure Databricks

Big Data: Hadoop, Hive, Pig

Cloud: AWS (EC2, S3, EMR, Glue)

Visualisation: PowerBI

Containerization: Docker

Orchestration: Airflow, Airbyte

Machine Learning: SciKit Learn, TensorFlow, Feature Engine

CONTACT

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LinkedIn:

<https://www.linkedin.com/in/jack-cavanagh-098243231/>

GitHub:

<https://github.com/JCav23>

90%

Communication

95%

Problem-Solving

95%

Adaptability

90%

Time-Management

90%

Organization

WORK EXPERIENCE

Sparta Global - Data Engineering Consultant

Aug 2023 – Present

Technical Training: Data Modelling and Storage principles (Data Lake, Warehouse, Kimball/Inmon Architecture), Database management (SQL/NoSQL), Data Analytics (Python, Pandas, NumPy, DataBricks), Cloud Computing (AWS - EC2, EMR, S3), Big Data (Hadoop, Hive, Pig, PySpark)

Client Placement: Civil Service – HMLR (*Local Land Charges Analyst – Data Migration*), liaising with local authorities to analyse and clean their LLC data to migrate to centralized HMLR register.

Stoff and May - Recruitment Consultant – Software Engineering (DACH)

Feb 2022 – Feb 2023

360 Recruitment consultant specializing in Java/Kotlin Full-Stack Software Engineering while also covering a wide scope of roles including mobile development on iOS & Android, ML Engineering, QA Automation. Promoted after successfully hitting my target to sign clients and place candidates.

RECENT PROJECTS

ETL Pipeline – Insurance Client

End to End ETL Pipeline focused on insurance claims, extracting, cleaning, and analysing data, before presenting results to stakeholder

Key Skills: Python, Pandas, Docker, PowerBI

Heritage Housing – ML Model for Predicting Housing Prices.

Streamlit Dashboard hosting a machine learning model for predicting housing prices in Ames, Iowa.

Key Skills: SciKit Learn, Plotly, Seaborn, Matplotlib, Pandas, Numpy

The Bear – High End Restaurant Website and Booking (Distinction)

Full stack web application built on the Django framework with full CRUD functionality for the user.

Key Skills: Django, Bootstrap, JavaScript, PostgreSQL

EDUCATION

CodeInstitute – Diploma in Full Stack Software Development (Specialization – Predictive Analytics)

July 2023 – Present

- **Languages:** Python, JavaScript HTML, CSS
- **Frameworks:** Django, Flask, JQuery, Bootstrap
- **Databases:** PostgreSQL, Sqlite
- **Testing:** Unit Testing, Test Driven Development
- **Version Control:** Git, GitHub
- **Machine Learning:** TensorFlow, SciKit Learn, Feature Engine
- **Methods:** Agile, Kanban

Just-IT – Skills Boot Camp Software Engineering

Feb 2023 – May 2023

- **Languages:** Python, JavaScript, HTML, CSS
- **Frameworks:** Flask, Bootstrap
- **Version Control:** GitHub, Git Bash

Bangor University – BSc Chemistry (2012 – 2016)

Dissertation: *Potential Energy Surfaces of a Bi-Nuclear Platinum(II) complex as function of photo-induced structural change.*

Completed my dissertation in Computational Physical Chemistry, giving me an introduction to computer coding and high-level computational mathematics & physics