Henry Maher

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About Me

Personable and experienced individual, with technical expertise in Big Data and Python.

Having worked on building up smaller start-ups, through to large global organisations, I have experience collaborating in many different teams and across several different technology stacks.

Moreover, I have a proven track record of delivering strong technical solutions and relish getting involved with business and product level discussions.

I like solving problems in organisations that value autonomy, creativity, strategic thinking and collaboration.

I look forward to bringing this enthusiasm and my expertise to my next role.

References available upon request.

Technologies

- Python
- SQL
- Terraform
- Node / Typescript
- Java / Scala
- GCP

Concepts

- Microservices
- Containers
- Test Driven Development
- Functional Programming
- Big Data
- ML Ops
- Data Science Lifecycle

EXPERIENCE

The Guardian

Data Engineer   **Key technologies:** *Python, Airflow, GCP, BigQuery, Terraform, DBT, Scala*   **Sep 2021 - Apr 2024**

I managed the Data Platform responsible for housing and processing all the Guardian's data to empower functions such as targeted advertising, user consents, churn analysis and training sets for in-house models. Additionally, I enhanced the platform by researching and evaluating new functionalities. This involved discussing potential collaborations with third-party software providers and implementing open-source solutions.

Daily activities encompassed:

- Writing and maintaining availability for ETL/ELT pipelines
- Collaborating across teams with Developer, Data Science and Analytics teams
- Evaluating and facilitating Data requests from internal and external parties
- Knowledge sharing and technical support on data-related matters to the wider department

This role involved extensive interaction with both technical and non-technical stakeholders, refining use cases and communicating solutions. It offered me valuable exposure to the data landscape within a large-scale organization.

Notable

- Managed and maintained Data Platform used by multiple departments, ~150 active users
- Delivered Data Governance Catalogue project; enabled single source of truth for business terms curated by engineering teams for business users.
- Lead the GDPR compliance for our Online Traffic data; All data older than 7 years is automatically anonymised and still able to be used for long term trend analysis.

- Oversaw Data Platform Migration from AWS to GCP. Replaced complex ETL pipelines with **Airflow** and **DBT** ; Reduced barriers to entry for less technical contributors and increasing use of data.
  - Implemented Medallion architecture.
  - Migrated User Web Traffic Data Asset ; Decreased data latency by 80%, improving time to insight for analysts and reducing cost to organisation.

- Completed proof of concept for running Data Science Models in Production using a variety of Data Science tooling (Vertex Ai, DVC, CML); Designed standard patterns for running Data Science Models.
- Lead migration to Tableau Cloud

- Enabled significant expansion of Models maintained on Data Platform; Grew from 70 to over 300
- I maintained and developed CI/CD for data teams, shipping all our ETL pipelines and models to the production environment.

Native Finance

Data Engineer	*Key technologies: Python, Airflow, GCP, Javascript, React, Java, Terraform*	**Mar 2020 - Aug 2021**

The startup began with an initial team of 5, growing to 7. It focused on creating market intelligence and business development products for the Commercial Real Estate sector.

I managed ETL and ELT processes for various data sources to provide an innovative, data-backed brokerage platform.

This experience enhanced my skills in Data Science and built upon my previous work in backend development and cloud services.

Notable

- Launched novel market intelligence product as SAAS
- Designed and built Data Platform; Created regular influx of up to date data from Land Registry, Companies House and additional third party sources.
- Utilized PostGIS to query and transform geospatial data
- Mentored junior members of the team.

- Implemented a range of NLP techniques to improve rates of matching real estate with corporate land transfer data:
  - Named Entity Recognition models
  - Levenstein Distance
  - Tokenisation and Regex
  - Stemming

IFPI

Software Engineer	**Key Technologies:** *Python, Scrapy, Java*	**Nov 2019 - Mar 2020**

As part of an SME representing major labels, my role was to search for and serve notice on pirated musical content at scale. This involved developing a complex and scalable web scraping application. The application was responsible for scraping known distributors of copyright infringing content and checking the content against the library of signed artists' songs.

Notable

- Designed global web scraping system

- Represented legal interests of major record labels

Yobota

Started as Technical Analyst, *Promoted* to *Software Engineer after 1 year*	**Key technologies:** *Python, Django, Postgres, SQL, AWS*	**Oct 2017 - Aug 2019**

Yobota was a fintech startup that I joined when it had just 10 employees. During my tenure, it grew to 50 staff members. The company's core business was providing banking infrastructure as a SaaS product. I worked on the Integrations team, managing all external integrations with Credit, Identity, Payment Processing, and Loan Comparison services—essential components for any bank.

Our primary product was a Django REST API that handled thousands of daily requests which required a high standard of availability crucial for financial services.

I thrived in Yobota's fast-paced, self-driven environment and relished the role's varied scope.

Notable

- Self Taught Python and was promoted to Software Engineer
- Technical Lead on Application to Open Banking; Partnered with Bank to deliver integration with Open Banking to Platform
    - Maintained Encryption keys for integrated services, including payment providers
- Responded to and resolved all high severity overnight outages within agreed response times
- Booked and organised company wide trips abroad and team meals
- Performed interviews and evaluated team fit; Onboarded three long term members of team (each contributed for over 1 year)

Education

University of Exeter   2:1   Economics

2013-2017

Final Thesis: The Economics of Misinformation

Anglo European   36   International Baccalaureate

2011-2013

Side Projects

- Forest Fire Modelling Master's Project
    - Partnering with Postgrad student built Python based application that generated coordinates for modelling evolving frontiers of forest fires using wind, vegetation density and blaze intensity data
- Environmental Travel Comparison site
    - Python web application with React frontend which polled Skyscanner API to retrieve flight options. This data was enriched with an emissions model to provide emissions estimates alongside booking links.