David Joshua Burgher | Data Engineer

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Profile

An adaptable, self-motivated, and endlessly curious Data Engineer with a passion for understanding and navigating the data-driven world. Expertise in building efficient data pipelines and web applications that contribute significantly to providing informed business decisions.

Core Proficiencies

- Proficient in Python (Pandas, Pytest, Flask, FastAPI, Plotly Dash) , SQL (incl. NoSQL), Javascript (React, Next.js)

- Building custom data pipelines using industry standard technologies (DBT, AWS Snowflake, PowerBI, Terraform)

- Improving and automating workflows (Prefect, Jira automation, bespoke REST APIs)

- Effective communication with a focus on providing low and high level documentation

- Commitment to continuous learning and application of new technology with an emphasis on knowledge sharing

- Experience with AWS Cloud Infrastructure (Certified Developer Associate)

Employment History

Convex
Data Engineer/Software Developer
01/03/21 – Present

Working for a specialist insurance company in the delivery team with a key focus on productionising in-house applications.

- Designed and implemented multiple data pipelines to efficiently process data from multiple sources
    - Reduced ETL from hours to minutes using S3, AWS lambda, DBT and Rockset
- Integrated third-party data into a pricing engine
    - Connected incompatible systems using custom APIs using FastAPI/Flask
- Refactored, tested and provided UI frontends to actuarial python scripts
    - Packaged using Docker and presented via Plotly Dash
- Automated processes to reduce model bugs and prevent unintended downstream impacts
    - Used Github workflows triggered by submitting Jira forms for ease of use for the end users

- Implemented data controls to ensure only high quality data is ingested into models
  - Incorporated tools such as Pandera to alert and sanitise incoming data into pricing models
- Provided knowledge sharing sessions to ensure wider team capability and remove key person dependencies
- Key point of contact between immediate team and wider business on data-related projects
- Managed a team of three to deliver business objectives

Kubrick Group
Data Engineer
02/06/18 – 01/03/21

Trained as a data engineer and was placed with two clients.
- Gained hands-on experience working into small and large teams
- Learned to communicate effectively with multiple stakeholders
- Understood and shared the importance of rigorous testing and documentation of projects
- Acquired experience with ETL and data cleansing tools – Alteryx, SSIS, Dataiku
- Extracted and cleansed data from Salesforce CRM platform
- Analysed client demographics and provided insight into advertising priorities

PHD Media
Paid Search
Executive
02/05/17 – 02/06/18

With a strong focus on budget management and data analysis, worked to manage, optimise, and improve paid search campaigns. Qualified in all major paid search platforms and used strong working knowledge of excel to collate, analyse, and report on account performance. Additional duties included:
- Liaising with clients to develop near and long-term testing strategies
- Analysed data to produce weekly and monthly reports
- Performed account audits to maximise performance
- Kept informed of current market trends and applied best practices

Education

University of Sussex
2012 – 15, 2015 - 16

MSc. Computing with Digital Media – Merit:
- Developed an understanding of the concepts, principles, and theories of Digital Media Computing
- Dissertation: Awarded a distinction for a 10,000-word implementation and analysis of a novel virtual reality navigation technique

BSc. (Hons) Chemistry - 2:1:
- Maths and Data Analysis (87%)
- Applications of Organic and Bioinorganic Chemistry (73%)