HELEN LYTTLE

QA / DATA ENGINEER

Leeds

helenlyttle@live.co.uk

hlyttle

Helen Lyttle

A recent career change has fired my commitment to coding, built on a love of problem-solving and organisation. While working in childcare and education I developed strong interpersonal skills and an ability to work to short, ever-changing deadlines with patience and an adaptable communication style. Completing a Data Engineering course showed me just how far my personal development in the field can take me, while giving me a particular passion for testing and QA engineering. I am looking forward to applying my skillset to achieving excellence in data solutions.

TECHNICAL SKILLS

Languages:
Python, JavaScript, SQL

Data:
PSQL/Postgres, database modelling, warehouse design, ETL (Extract-Transform-Load) processing

Cloud:
AWS inc. Lambda, Cloudwatch, EC2, IAM, RDS, S3

DevOps:
Terraform, CI/CD pipelines (GitHub Actions)

Testing:
Test-Driven Development (TDD), Jest, Pytest

Methodology:
Agile/Scrum, Trello, paired programming

EXPERIENCE

Trainee Data Engineer, Northcoders — Aug - Nov 2023

- Completed an industry-recognised Data Engineering bootcamp to further my knowledge of varied data and software engineering languages and technologies

- Final project available here:

  - Built and implemented a data-processing platform that ingests data from a live-updated database and populates an OLAP data warehouse

  - Used Python to build a series of functions that will ingest data as CSV files on an automatic schedule, transform it into the desired Parquet structure, and load it into our data warehouse using SQL queries; all using Pytest for Test-Driven Development

  - Implemented Terraform infrastructure to host and run the project through Amazon Web Services, including all necessary structures and permissions and a monitoring/alerting system

  - Created YAML scripts to automate a CI/CD pipeline using GitHub Actions

  - Used SQL queries to display the resulting data on an AWS Quicksight dashboard

  - Developed my team working skills and understanding of project best practices, including paired programming and Agile working systems; lead stand-ups to facilitate communication and efficient working practices

Private Academic Tutor, freelance — Feb 2008 - present

- Designed and delivered tutoring sessions aligned with the English and Mathematics curricula, up to GCSE level

- Tailored content and delivery styles to meet individual student needs

- Consistently improved students' exam performance and attitudes as shown by their achievements

Academic Tutor, Oakwood Primary School — Sept 2022 - June 2023

- Designed and delivered small-group interventions to aid academic achievement

- Reliably improved pupils' abilities and understanding in short-term blocks as shown by start and end test results

Nanny, the Rosling family — July 2016 - July 2022

- Took full responsibility for all aspects of childcare, including meals, timetabling, and education

- Created and maintained communication channels between myself, parents and school

- Organised and led various extra-curricular activities for groups of up to 20 children

Nanny, the Clayton family — Sept 2021 - July 2022 (part-time)

- Extended my existing childcare skills to include infant care and paediatric first aid

- Aided the development of social skills, created nutritionally balanced meal plans

- Worked with child-led timetabling

EDUCATION

PGCE Primary and Early Years — University of Cambridge, 2012 (merit)

MA Writing for Performance and Publication — University of Leeds, 2008 (merit)

BA Film and Media Studies — University of Sunderland, 2007 (1st class hons)

SKILLS, TRAINING & INTERESTS

- Volunteer work as an online academic tutor or as a nursery / classroom assistant

- Self-directed further study for ISTQB Certified Tester Foundation Level certification; studying additional programming languages (Java, React) online

- Piano (Grade 2), fiction writing, self-led language study (French, Italian, Greek), escape rooms, cryptic crosswords, yoga, karaoke, baking...