Fanzhou Liang

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### Profile

I am an experienced data professional with strong technical skills. I have the rare linguistic ability (I speak two languages) and am able to use several programming languages simultaneously (R, Python, SQL, JavaScript,even Visual Basic). I am self-taught, highly motivated individual with a strong desire to learn. I have a passion for data. I seek to work with “true big data” in my next role. My calling is becoming a *Data Architect*. I aim to achieve this by starting work as a *Data Engineer* and challenging myself with heavier data volume. Outside work, I enjoy art and music. I share digital drawings on my Instagram.

### Technical Skill

* Solid ELT (Extract Load Transform) skills for large geo-spatial data (typically 100,000 rows). For example:
  + Restore historical version of data using change logs table without time series database in pure PostgreSQL;
  + Create computationally efficient spatial join in the absence of GIS spatial indexing.
* Experience applying natural language processing (in commercial experience) and long paragraphs (Latent-Dirichlet-Allocation for my academic project).
* Familiar with HTML, JavaScript and modern Web development frameworks such as DJANGO, ReactJS, and CSS; in fact, this CV is styled with CSS.
* R-programming (Tidyverse, igrap, tmap)
* Python (Pandas, Vega Altair, ibis)
* Postgre SQL + PostGIS
* Delta Lake
* Text-mining & Topic Modelling
* Excel Macro & Visual Basics
* R-Shiny application
* Tensorflow

### Work Experience

04/2022 – present | **Full Fibre Limited** | **Data Analyst / System Developer** | Exeter, England, UK

* Delivered the company’s first semi-automated data for fibre optic testing, which was three times faster than manual human input.
* Delivered the company’s first data-driven financial reporting for the 2023 annual audit;
* Further automated several recurring reports, such as monthly service billing, annual carbon footprint, weekly build report;
* Participated in software procurement and advised the
* Prototyped the first algorithm that would fully automate low-level planning using applied graph theory;
* The first to prototype the company’s fibre routing report and data validation strategy.
* I onboarded and buddied two mid-level colleagues during their first three months.
* Taught Postgres SQL training courses to several non-technical colleagues.

11/2021 - 01/2022 | **Marks and Spencer** | **General Customer Assistant** | Exeter, England, UK

* Customer service: delivering a great shopping experience for their customers.

### Voluntary Experiences

03/2022 –05/2022 | **Exeter Green Party** | **Database Support** | Exeter

* Generic ad-hoc requests and data transformations. Worked with MySQL workbench.

11/2021 – 03/2022 | **Forage** | **KPMG Data Analytic Virtual Internship**| Virtual, at home

* A virtual experience program that replicated the type of work KPMG graduates do with hypothetical data.
* Data quality assessment: assess data quality and communicate with clients concisely. Data insights: explore data to propose efficient data-analytic models.

09/2017 – 07/2018 | **Henan University of Technology** | Student Interpreter, Volunteered as an interpreter for foreign teaching staff.

### Education

2020 - 2021 | **University of Exeter** | **MSc Business Analytics** (merit)

* A data-centric master programme at one of the UK’s top 10 universities.
* I was interviewed and successfully selected for the QTEM (Quantitative Technique for Economic and Management) program, but voluntarily withdrew to pursue visa status.
* I achieved a distinction for my final project, in which I used topic modelling to identify research funding opportunities.

2018 - 2020 | **Cardiff Metropolitan University** | **BA Business Management** with (Pathway) Human Resource Management (distinction, 1:1)

* A comprehensive education of best business practices with an extra focus on human resources management.

2016 - 2018 | **Henan University of Technology** | **BA Human Resource Management** with Third Year Abroad

* Bachelor’s degree with robust mathematics (calculous, matrix, probability theory) foundation taught in the first year.
* Taught and examined in full English; Achieved distinction for all English modules and awarded two scholarships.

### Professional Qualification

Since 2016 ACCA (5/13)

* Three Foundational module Plus
* Financial management (FM)
* Performance management (PM)

### Portfolios

**Identify Research Funding Trends using Topic Modelling**. This is my Master’s thesis. A project features Topic Modelling (LDA) and natural language processing for scope research funding for artificial intelligence. Full report here: https://github.com/FzliangFrank/Fzliang-UoE-2022

**Network Data Utility tool.** A R-Shiny App Tool Kit for interactive network visualisation. There are several prewritten modules that enables a user to search a particular node or edges based on identity or attribute. A demo of a web app written use this package is hosted on shiny.io: https://frank-the-tank.shinyapps.io/networkutils/

**LLoyd Bank Statement Reader** A Python package which reads a pdf bank statement into .csv, which I used to analyse my personal financial well-being. Repo here: https://github.com/FzliangFrank/pdf\_bank\_statement.

### Interests & Activities

Café Laptop Hoper: Serial laptop hopper frowned by café owners across Cardiff and Exeter. Often found colonising coffee tables coding with my 14-inch MacBook.

Violin performance: few awards performing as a student violinist. Before the pandemic, I was briefly in a non-profit local Orchestra in Cardiff, South Wales

Realistic Drawing: A less noisy hobby. I have a art Instagram: https://www.instagram.com/franklyarts/.

My Playlist: Taylor Swift, Flume, French 79, IMANU…