

# Fanzhou Liang

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## Profile

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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

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- 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.
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|--|---------------------------------|-----------------|
| • R-programming (Tidyverse, igrap, tmap) | • Delta Lake                    | • Neuro-Network |
| • Python (Pandas, Vega Altair)           | • Text-mining & Topic Modelling | • Tensorflow    |
| • Postgre SQL + PostGIS                  | • Excel Macro & Visual Basics   |                 |
|  | • R-Shiny application           |                 |

## Work Experience

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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.
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- 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

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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

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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 (calculus, 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

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Since 2016 ACCA (5/13)

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

## Portfolios

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**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 which enable users 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](https://github.com/FzliangFrank/pdf_bank_statement).

## Interests & Activities

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☕ 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...