

Ibrahim Ayub Desai

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GitHub: <https://github.com/IADesai> **Portfolio Website:** www.ibrahimayubdesai.com

Education/Qualifications

Higher Education, University College London (UCL) 2020-2023

Bachelor of Chemical Engineering (BEng)

- **First Class (4.0 GPA)**

Minor in Programming

- Application Programming for Data Science
- Applied Software Engineering

A Levels, Beal Sixth Form 2018-2020

- Maths: **A** Physics: **A** Chemistry: **A**

Additional Experience

08/22 – 09/23 **Managing Director** of H&C Retailing LTD

- Responsible for transforming an idea of a halal Chinese steamed chicken stall into a functioning business, connecting with employees at top delivery platforms, (Uber Eats, Deliveroo, Hungry Panda etc.), and developing strategies to improve profits (approx. +120%).

08/22 – 08/23 **SIA Licensed Door Supervisor** at Centre Circle Events Management

07/21 - Present **Barista/Waiter/Events Staff** at Appetite4Work

12/20 - 07/21 Self-employed **Private Tutor**

06/19 - 09/19 Part Time **Barista** at Costa Coffee Ilford

Technical Experience

06/23 – 09/23 **Trainee Software & Data Engineer** at Sigma Labs

Experience coding individually and as part of an agile team, carrying out:

- **Coding:** Python, OOP, HTML/CSS, Clean Code, TDD, Git;
- **Backend:** Flask, PostgreSQL, SQLite, 3NF, API development, security fundamentals;
- **Data Science:** Pandas, regression modelling, statistical significance;
- **Data Engineering:** Kafka, Spark, ETL pipelines, stream processing, queues, data cleaning;
- **Visualisation:** Matplotlib, Plotly, Dashboarding using Dash, Tableau, Streamlit;
- **Machine Learning:** NLP, Fuzzy Matching, NER;
- **Cloud:** Docker, AWS, EC2, Lambda, Terraform;

Completed **four industry-standard technical case studies** using all aforementioned skills.

Spearheaded agile development of a media sentiment analysis project, **producing 2 dashboards** & decreasing cloud resource initialisation times by **150%**.

Current Personal Projects

- **Personal finance dashboard** created to organise monthly statements into key metrics for effective financial control.
- Multiple **automation projects** for geo-engineering employees (**10 -15x** faster data extractions).
- Expanding frontend capabilities by developing **personal portfolio website**

References: chris.owen@sigmalabs.co.uk, dan.keefe@sigmalabs.co.uk (Partners, Technical Education)

Further references available upon request