

# Ibrahim Ayub Desai

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## EDUCATION

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**Sigma Labs** | *Trainee Software & Data Engineer* Jun 2023 - Sep 2023

- Completed a **coding bootcamp** focused on **backend development, data science, data engineering, and cloud computing**, culminating in **four technical case studies**.

**University College London** | *BEng Chemical Engineering* Sep 2020 - Jul 2023

- First Class Hons (4.0 GPA) - Accredited by IChemE

Minor in **Programming**

- Application Programming for Data Science
- Applied Software Engineering

**Beal Sixth Form** | *A Levels* Aug 2018 - Jul 2020

Maths: A Physics: A Chemistry: A

## WORK EXPERIENCE

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**Centurion Global Consultancy LTD** | *IT Engineer* Jul 2024 - Present

- Developing **IT infrastructure** for an accounting business, revolving around a website & email.

**Self Employed** | *Web Designer & Developer* Apr 2024 - Present

- Developed a website for a trending restaurant client, reporting **1108 sessions** and **2,157 pageviews** per month, moving the website to the **#1 rank in google search**.
- Strong application of **Wordpress, Google Analytics, and Hostinger**.
- Developing with **PHP** for client site customizations.

**H&C Retailing LTD** | *Managing Director* Aug 2022 - Sep 2023

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

## PROJECTS

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**Media Sentiment Analyser** | *Engineer & Quality Assurance* Sep 2023 - Sep 2023

- Worked through an **agile media sentiment analysis project**, creating **two dashboards** and optimizing **cloud resource initialisation times by 150%**.
- Utilised **NLP** to calculate attitude within text used by **BBC, Daily Mail, and Reddit**, to compare **negative or positive sentiments** held on **current topics**.
- **GPT** used to create **relevant topic names** and **match between data sources**.

**Recruit Tracker** | *Developer* Feb 2024 - Feb 2024

- Solo project, transforming an excel spreadsheet tracker into a **web portal** used by **sales team managers**, providing **custom database inputs**.
- Implemented **normalisation techniques** to create efficient **data links**, via an **internal relational SQL database**.

**Cumene Processing Plant Design** | *Chemical Engineer* Sep 2022 - May 2023

- Worked through **appraisal, selection, and unit design** of a processing plant in a final year university project.
- Utilised **GAMS** as a solver for **flowrate estimations**, and **Aspen** for modelling.
- Completed **stakeholder analysis, PreHA, LCA, HENS, HAZOP, PFD, DSTWU calcs., and SIF**.

## TECHNICAL SKILLS & LANGUAGES

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Programming Languages: Python, HTML/CSS, SQL (PostgreSQL, SQLite); Data Engineering: Kafka, Spark, ETL, stream processing, data cleaning; Data Science & ML: Pandas, regression, NLP, NER, Fuzzy Matching; Visualization: Matplotlib, Plotly, Dash, Tableau, Streamlit; Cloud & DevOps: Docker, AWS, Terraform; IT & Software Development: OOP, Clean Code, TDD, Git, Flask, APIs, security fundamentals.