Raul Unnithan

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EDUCATION

Durham University, Stephenson College   **Durham, UK**
MMath Mathematics and Statistics   October 2021 - July 2025
Current result: First Class Honours (74%)
Achieved the highest individual contribution at Durham's 2023 Hackathon.

Trinity School, Croydon   **Greater London, UK**
A-Levels: Mathematics (A*), Chemistry (A*), Further Mathematics (A*)   September 2014 - July 2021
Awarded 40% academic and sports scholarship and achieved gold 4x in the UKMT Maths Challenge.

WORK EXPERIENCE

T. Rowe Price   **London, UK**
IT Business Analyst   June 2024 – August 2024
- Designed a self-service widget in Figma for the business management team, reducing analyst rating update time by 40%, eliminating tech dependencies, preventing direct database changes, and freeing up 2 resources.
- Developed an API Specification contract in Confluence and mapped out 30 workflows in Miro, streamlining the transition to the new architecture and accelerating the planning phase.
- Created a convictions notebook using Python Pandas data frames, capable of storing up to 1500 convictions.

Gallagher Re   **London, UK**
Reinsurance Actuarial Analyst   June 2023 - August 2023
- Led a team of 4 in a research project on the profitability of over 30 insurance companies through burning cost analysis, frequency value analysis and loss ratios, and presented findings to a board of senior directors.
- Coded a Python program that reads Excel files, each containing approximately 1 million rows of data, and filtered them based on client, region, and year to prepare data for Gallagher's modelling system iFM.

Croydon Accident Repair Centre   **Greater London, UK**
Office Administrator   June 2022 - September 2022
- Optimised Audatex by implementing an Excel system, which automatically prices up to 500 estimates on repairs per week and trained 5 new admin staff to use BMS and Audatex vehicle repairer software.
- Developed a Google Sheets system to monitor repair progress, saving £800 in its first week of use.

Self-Employed   **Greater London, UK**
Private Online Tutor   September 2019 - September 2023
- Mentored 10 students in 1-to-1 sessions, tutoring Science and Maths up to A-level, with parent consultation.
- Created and coded a system which automatically sends lesson plans generated using AI before every lesson.

PERSONAL CODING PROJECTS

- Cooking – Developing a web-based application that adjusts ingredient quantities to accommodate 20 specific dietary requirements (e.g., protein intake). Built with HTML, JavaScript, and CSS.
- FX Trader – Created a website using GitHub and Streamlit that summarizes 30,000 financial articles using the Google API and performs sentiment analysis using Meta's Llama AI model.

ACHIEVEMENTS, INTERESTS AND SKILLS

Programming Skills and Tools – Python, R, C++, JavaScript, HTML, SQL, Linux, Ubuntu, Spyder and LaTeX
IT skills and Methodologies – Agile (Scrum), Jira, Confluence, MS Office: Word, PowerPoint, Excel, Xero
Squash – Co-president and Treasurer – with two back-to-back wins in the top University league
Aggression Sessions – Treasurer for a boxing event which raised £40,000 for 2 Charities: Papyrus and Sport in Action
DurHack – Logistics Officer, coordinating 500+ hackers and reducing food costs by 9%
Music - completed Grade 8 Piano from ABRSM (achieved a Merit)
Student representative of the Student Experience Committee – established Durham Maths Society's parental scheme