
EXPERIENCE

Trident AI | Founding Engineer

FEB 2024- CURRENT

- Architected and built scalable fraud detection system using few-shot learning and RAG models.
- Owned backend development lifecycle implementing a microservices architecture using FastAPI and containerization.
- Spearheaded DevOps Automation on GCP with Kubernetes and Terraform.

NetPurpose | Senior Machine Learning Engineer

JUN 2022- CURRENT

- Used GPT and PaLM2 for end-to-end extraction of unstructured data, saving over \$150,000 p/a.
- Created financial report classifiers using custom transformer models, achieving costs savings of over \$45,000 p/a.
- Created a custom domain specific language (DSL) for creating comparable metrics.

Davide Leone and Partners Investment Company (\$36bn AUM) | Data Scientist

Dec 2021- May 2022

- Developed scripts for auto-generating reports on fund alpha/beta figures and market shock returns - aiding risk assessment and trading signal generation.
- Engineered a web scraper for efficient data collection from the London Stock Exchange and US Federal Reserve Board.
- Devised a novel sentiment analysis method for US interest rate direction prediction using SpaCy, NLTK, TextBlob, Flair, and FastText.

Deutsche Bank | Summer Analyst (Technology, Data and Innovation)

June 2021-Aug 2021

- Secured a top 5 position in Google Cloud's US/UK BigQuery Analytics & Machine Learning competition.
- Contributed to DB's bond issuance platform (DBSyndicate) using Java (Springboot), Jenkins, Kubernetes, and Docker.
- Engineered a Symphony bot in Java to automate creation of developer tickets.

inState | Founding Member and Web Dev Lead

May 2020- Aug 2021

- Onboarded and led a team of 3 developers.
- Engineered the front and back-end of the online portal using Bootstrap HTML, React, and Django.
- Engaged with sponsors successfully raising £5,000 from Clifford Chance for the organization's vision.

EDUCATION

University College London | BSc Computer Science— First Class Honours (81% Average)

Sep 2018 - July 2021

Notable Modules: Discrete Mathematics (99%) | Machine Learning for Visual Computing (96%) | Mathematics & Statistics (93%).
Awarded the Dean's List for outstanding academic performance, and scoring in the top 5% of the engineering cohort.

Ernest Bevin College

Sep 2011- July 2018

A Levels: Maths, Further Maths, Physics (A*A*A)
AS: Maths, Further Maths, Physics, Philosophy, Ethics & Islam (AAAA)
GCSEs: 8A*, 4A
Awards: Top of the class for GCSEs, AS and A-Levels, Senior Prefect, Wandsworth Borough Exceptional Achiever

ADDITIONAL EXPERIENCE

1. **Treasurer of the UCL Pakistan Society:** Managed a £2,500+ budget for a 500-member society, securing valuable sponsorships to support various activities.
2. **Royal Television Society Technology Scholar:** Engaged with industry professionals during an extensive tour of the UK's leading TV production hubs, fostering connections with Software Engineers in the field.
3. **Lloyds Scholar:** Benefited from a three-year scholarship program, encompassing mentoring, a deep dive into retail banking operations, and a hands-on summer internship.
4. **Technology intern at BlackRock:** Explored the intersection of finance and technology within the Aladdin framework, and spearheaded a project implementing AI on Raspberry Pi-driven robots.

SKILLS & INTERESTS

Languages: English (native) | Urdu (native) | Punjabi (intermediate) | Hindi (intermediate) | German (intermediate) | Spanish (basic)

Programming: Python* | Java* | C | *Certified by HackerRank

Please visit my website to view my personal project portfolio <https://raghib.co.uk/#works>.

Audited Courses: Harvard CS50's 'Intro to AI with Python' and 'Mobile App Development with React Native'.

Interests & Hobbies: Pace bowler for Roehampton Cricket Club (Best figures 4-42), Philosophy and Physics.