# Raghib Mirza
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## 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 year for GCSEs, AS and A-Levels, Senior Prefect, Wandsworth Borough Exceptional Achiever

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## EXPERIENCE

**NetPurpose | Machine Learning Engineer**    JUN 2022-  CURRENT
- ➢ Engineered a model using HuggingFace's Bert transformers, achieving a cost-saving of over £3,000 upon implementation. Developed a FastAPI and Pydantic-based interface for seamless interaction with the model.
- ➢ Utilized GPT and PaLM2 to expedite success on end-to-end data extraction.
- ➢ Crafted a PyLark-based parser, streamlining KPI grammar interpretation.
- ➢ Directed a project to design a classifier for accurate company name extraction from documents.
- ➢ Led a successful project to create an engine for precise prediction of company data release timing.
- ➢ Implemented MongoDB for ML results for robust data storage.
- ➢ Enhanced code quality by addressing tech-debt, refactoring for query efficiency, and writing custom flake8 plugins to enforce linting rules.

**Davide Leone and Partners Investment Company | Data Scientist**    Dec 2021- May 2022
- ➢ Predicted hedge fund market impacts by analyzing COVID-19 variant and case figures.
- ➢ 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.
- ➢ Boosted daily job performance by 90% through code refactoring and concurrency/multi-threading implementation.
- ➢ Halved weekly errors by integrating unit testing frameworks and promoting test-driven development.
- ➢ Led a Greenfield project on sentiment analysis, devising a novel method using Python libraries (SpaCy, NLTK, TextBlob, Flair, FastText) for extracting meaning from large texts to predict US interest rates.

**Deutsche Bank | Summer Analyst (Technology, Data and Innovation)**    June 2021-Aug 2021
- ➢ Contributed to DB's bond issuance platform (DBSyndicate) using  Java (Springboot), Jenkins, Kubernetes, and Docker.
- ➢ Engineered a Java-based Symphony bot to track developer tickets for changes and incidents.
- ➢ Secured a top 5 position in Google Cloud's US/UK BigQuery Analytics & Machine Learning competition.

**inState | Founding Member and Web Dev Lead**    May 2020- Aug 2021
- ➢ Engineered the front and back-end of the online portal using Bootstrap HTML, React, and Django, achieving over 1,000 sign-ups within the initial two weeks.
- ➢ Engaged with multiple sponsors and successfully raised £5,000 from Clifford Chance for the organization's vision.
- ➢ Onboarded and led a team of 3 developers  to enhance the web app and implement DevOps practices such as continuous integration.

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## 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. **Facebook Hack-a-Project participant: I**mmersed in a 12-hour hackathon, benefitting from dedicated mentoring and intensive tech crash courses to hone coding skills.
5. **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.

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## SKILLS & INTERESTS

**Languages:** English (native) | Urdu (native) | Punjabi (intermediate) | Hindi (intermediate) | German (basic) | 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, Youtube.