

ANGELO ROSU

angelo.rosu2001@gmail.com | +447725041270 | linkedin.com/in/angelorusu | github.com/angelorusu

KEY SKILLS

✓ Python ✓ C# ✓ SQL ✓ R ✓ GitHub ✓ Git ✓ OOP ✓ Excel ✓ Optimization Algorithms
✓ NumPy ✓ Pandas ✓ LaTeX ✓ Scikit-learn ✓ TensorFlow ✓ Data Visualisation (matplotlib, seaborn)

EDUCATION

UNIVERSITY COLLEGE LONDON

MSc Computational Finance

London, UK

2024 - Present

- **Upcoming modules:** Numerical Methods for Finance, Financial Engineering, Data Science, Algorithmic Trading, Financial Market Modelling and Analysis, Advanced Machine Learning in Finance.

UNIVERSITY OF NOTTINGHAM

BSc Mathematical Physics

Nottingham, UK

2020 - 2023

- **Modules:** Optimization, Modelling, Statistics and Probability, Programming (Python).
- **Traffic Flow Analysis:** Developed and analysed 3 traffic flow models, including Car-Following, Cellular Automata, and Classical Models, with Python and R. (Group project) [Link].

UNIVERSITY OF ZURICH

Deep Dive into Blockchain (Fully Funded Scholarship)

Zurich, Switzerland

2021 - 2021

- Acquired a comprehensive understanding of blockchain technology and conducted market analysis while developing a smart contract for COVID pass, covering public/private block-chains, distributed ledgers, token economics and scalability solutions.

EXPERIENCE

VALPAK

Data Account Manager

Avon, UK

January 2024 - August 2024

- Managed accounts for top-tier retail clients with a combined annual revenue exceeding \$50 billion, identifying growth opportunities and strategic initiatives to optimize account performance.
- Streamlined data management with Power Query and advanced Excel functions (X-LOOKUP, INDEX MATCH, Pivot Tables) to consolidate, standardize, and analyse over 100 complex data files per quarter using effective planning and strategic approaches.

MYTUTOR

Tutor

Online, UK

May 2021 - July 2023

- Tutored and mentored over 25 students in mathematics and science, boosting average grades by two levels and increasing engagement by 50% through interactive online tools.
- Utilised interactive whiteboards and screen-sharing tools to help with online learning experience, resulting in 50% increase in student engagement.

PROJECTS

ENHANCING VOLATILITY FORECASTING AND OPTION PRICING WITH ML

TENSORFLOW, SCIKIT-LEARN, PANDAS, NUMPY, ARIMA, SQL

- Integrated machine learning models into option pricing frameworks to improve volatility forecasting, with Python, TensorFlow, scikit-learn, and SQL.

BRAIN TUMOUR DETECTION FROM MRI SCANS

PYTHON, TKINTER, OOP, SQL, MASK R-CNN, INTEL DEVELOPER CLOUD

- Designed an intuitive GUI using Tkinter and SQL for efficient data management to store 100s of patient records.
- Executed a Mask R-CNN model, achieving 79% accuracy in brain tumour detection on Intel Developer Cloud.
- Secured 2nd Prize from Intel at Hackathon.

PHOTOELECTRIC PHYSICS SIMULATOR

C#, WPF, MVVM, OOP

- Engineered a C# physics simulation with interactive features to help a class of 20 new physics students.
- Developed and implemented 15 OOP components, resulting in a flexible, modular system to aid code maintainability.

ADDITIONAL COURSES

- **Courses:** Completed IBM Data Science Course, Introduction to Statistical Learning (R and Python) by Stanford, Introduction to Banking Course by City Investment Training.
- **Communication:** Conduct conversations and write proficiently in both English and Romanian, ensuring clear communication.