Manuj Mishra

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EDUCATION

University of Oxford – *MSc Advanced Computer Science (First Class)* *Oct 2022 – Oct 2023*

- Key Modules: Geometric Deep Learning, Graph Representation Learning, Deep Learning in Healthcare

Imperial College London – *BEng Joint Mathematics and Computer Science (First Class)* *Sep 2019 – Jul 2022*

- **Ranked 1st in cohort**, received Governor's Award for best overall performance (84%)
- Key Modules: Software Engineering Design (91%), Algorithms II (84%), Numerical Analysis (98%), Compilers (90%)

King's College London Mathematics School – *A-Levels (4 A*s)* *Sep 2017 – Jun 2019*

- Sixth Term Examination Paper (STEP) I - Grade 1 (**Top 300** students in UK); British Mathematics Olympiad - Merit

WORK EXPERIENCE

Neuralox AI Consulting – *Co-founder* *May 2023 - Present*

- Founded a student AI consultancy and scaled to $4000 MRR in under 3 months

Rebellion Defence – *Machine Learning Engineer* *Jun 2022 - Sep 2022*

- Developed production-grade ETL pipelines using Dagster data orchestration to instigate runs based on external state changes
- Built, benchmarked, and integrated PCA-based data drift detection models using sklearn to monitor changes in distribution
- Replicated results from recent academic papers using PyTorch to configure, train, and tune ML models for object detection

American Express – *Software Engineering Intern* *Jun 2021 – Aug 2021*

- Automated supplier registration process for Buyer Initiated Payments team reducing onboarding time from days to minutes
- Built a Java Spring Boot microservice utilising HMAC tokens to establish secure connectivity to external APIs
- Delivered guild sessions on functional programming to 30 tech interns covering lazy evaluation and type inference in Haskell

PROJECTS

Wave Wellbeing – *Imperial Department of Computer Science* *Jun 2021 – Nov 2021*

- Initiated a programme to help new students navigate the stresses of university life via trained student wellbeing mentors
- Developed a web app for 50+ students to track and share moods with mentors using React, Django (Python), and PostgreSQL
- Integrated an NLP machine learning engine, leveraging sentiment analysis to identify negative trends in students' moods
- Established relationships with 22 key stakeholders including charities, researchers, competitors, and counsellors

Solana Research Project - *Imperial Centre for Cryptocurrency Research* *Aug 2021 – Sep 2021*

- Investigated properties of the Solana blockchain and consensus mechanism in comparison to other proof-of-stake chains
- Implemented and deployed an escrow smart contract on the Testnet cluster using Rust and the Solana SDK

Algorithmic Crypto Trading Bot - *Spark University Hackathon* *Jul 2020 – Sep 2020*

- Developed an algorithmic trading bot yielding 39% profit over 8 weeks to win 2nd place prize in Luno Trading Challenge
- Implemented technical indicators (e.g. RSI, MACD, EMA) in Go and deployed bots to AWS EC2 instances
- Analysed and benchmarked algorithms using Python to back test on 6 months of historical price data from Kaggle

AWARDS AND SKILLS

Academic Awards

- Governor's Award (Ranked top in cohort)
- Corporate Partnership Prize (Distinguished thesis)
- IBM Group Project Prize 2022 (1st / 50 teams)

Languages

- Python, Java, C, Haskell, Go, Rust, Javascript, Solidity

HACKATHONS

Hackathons (Winner)

- ETH Global India 2023
- ETH Global Paris 2023
- IC Hack 2023
- United Nations Privacy Hackathon 2023

Hackathons (Placed Top 3)

- IC Hack 2022 (Runners up - Most Entrepreneurial)
- AstraZeneca Hackathon 2021 (2nd / 30 teams)
- IC Hack 2020 (Runners up - Newcomers Category)
- Spark University Hackathon 2020 (2nd / 30 teams)