

# OSCAR MOXON

🌐 MrMOXON | ✉ oscar@oscarmoxon.com | 🌐 Oscar Moxon | +447780447951 | Website

## EDUCATION

2023 – Present	<b>MSc. in Artificial Intelligence, King's College London, UK</b> (1:1) <ul style="list-style-type: none"><li>Modules: <i>Pattern Recognition and Deep Learning, Data Mining, Agents and Multi-Agent Systems, AI Planning, Computer Vision, Optimisation Methods, Machine Learning</i></li></ul>
2020 – 2023	<b>BSc. in Economics and Management Sciences, University of Southampton, UK</b> First Class 1:1 Recipient of Dean's Award 2022 & 2023 for Outstanding Attainment <ul style="list-style-type: none"><li>Modules: <i>Applied Macroeconomics, Risk Management, Industrial Economics, International Trade, Development Economics, Mathematics for Economics</i></li></ul>

## ACHIEVEMENTS

Global Top 10 Portfolio (of 980 teams), Bloomberg Trading Challenge (BTC)	Fall 2022
(x2) Deans Award for Outstanding Attainment	Academic Yr. 2020 - 2023
StabilityAI Researcher Sponsorship - CogX Conference	Fall 2023
3-Day-Startup, Barclays Eagle Labs: Winner	Jan 2021 & 2022
ECSS Pico Hackathon: Overall Winner	Summer 2022
Anthropic Hackathon: Nominated 2023	Winter 2023

## RELEVANT EXPERIENCE

<b>Software Engineer, Bselected, London</b> May 2023 – Present <ul style="list-style-type: none"><li>Developing human-on-loop software for automated CV processing and deployed full-stack app through Azure Cloud.</li><li>Enabled 5-10x reduction in labour required to process a CV, with a 20% quality improvement using LLM tooling.</li></ul>
<b>Innovative Technology Intern, BAE Systems, London</b> Easter 2023 <ul style="list-style-type: none"><li>Researched internal systems and developed proposal for centralised data infrastructure to improve decision making latency.</li></ul>
<b>Research Student, QuantX, Southampton UK</b> May – Nov 2022 <ul style="list-style-type: none"><li>Automated manual intraday trading through volatility analysis. Developed a program to rank indicator performance on time-series data and generate heatmaps for promising strategies. Culminated in Bloomberg Challenge Top 10 finish.</li></ul>
<b>Summer Intern, Level39 Accelerator, London</b> Summer 2022 <ul style="list-style-type: none"><li>Involved in onboarding investors and startups. Shadowed data scientists in early-stage AI ventures, learning to implement recommenders with PyTorch. Organized discussions with founders in the fintech incubator.</li></ul>
<b>Summer Placement, Canary Wharf Group, London</b> Summer 2018-22 <ul style="list-style-type: none"><li>Worked under board of directors incl. Head Architect and President Sir Iacobescu. Performed legal skyscraper "break-ins" to test security measures with Estate CyberSecurity Team. Produced reports for CFO on M&amp;A and contributed to architectural projects.</li></ul>

## RESEARCH

<b>"Multi-Agent Debate Simulation," Research Thesis</b> Advisor – Dr. Yulan He (Turing Institute) <ul style="list-style-type: none"><li>Developing a multi-agent language system to augment the capability of collective agent swarms.</li><li>Exploring the limitations of language agents to promote novel scientific research and inquiry argumentation dialogues.</li></ul>
O. J. Moxon, <i>"The Threat of Automation: An Economic Perspective," Dissertation Literature Review, Mar 16, 2023. [Online]</i> . <ul style="list-style-type: none"><li>Performed an assessment of methods of predicting economic impact of Machine Learning on Full Automation of Labour.</li><li>Proposed a general model for evaluating 'risk of automation' to furnish policymakers with more precise tools for navigating the capital benefits of technological change, ensuring equitable and effective redistribution strategies. 87%.</li></ul>

## SKILLS

<b>Programming</b>	<b>Fluency:</b> Python <b>Familiarity:</b> C++, JavaScript, HTML, CSS, SQL, Svelte Python, STATA, Ruby
<b>Tools</b>	Git, LaTeX, Scikit-Learn, Matplotlib, Pandas, NumPy, fastAI, PyTorch, Keras, MATLAB, OpenCV, XGBoost, Kaggle, TensorBoard, Hugging Face Transformers, Weka, Jekyll, Svelte, Docker, Flask, React
<b>Mathematics</b>	Statistics, Calculus, Linear Algebra, Game Theory, Coding Theory, Statistical Learning, Optimisation Methods
<b>Algorithmics</b>	Various Search and Ranking Strategies (Greedy, Heuristic, Genetic Algorithms, A* and WA* Search, Recommenders). Learning methods (SVM, Random Forest, Classification, Regression, Clustering, PCA, Boosting, Eval and Validate).
<b>Models</b>	Transformer Models, Generative Adversarial Networks, Policy Iteration and Q-Learning, RNNs, CNNs.