

James Ward

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Objective

Aspiring AI engineer, open to relocation or remote work within the UK, with a passion for learning, solving problems and writing quality code. Has academic research experience and experience of agile software engineering in professional contexts through previous internship experience.

Education

University of Edinburgh, MSc in Artificial Intelligence Sept 2024 – Aug 2025

- **Grade:** Distinction
- **Modules Including:** Advanced Robotics (89%), Accelerated Natural Language Processing (81%), Natural Language Understanding, Generation, and Machine Translation (81%)
- **Thesis:** How does the Softmax Bottleneck affect LLM Generation? (80%)
- **Skills:** Machine Learning, LLMs, Python, PyTorch, CUDA, Linux, Git, Huggingface

University of Edinburgh, BSc in Computer Science & Mathematics Sept 2020 – May 2024

- **Grade:** 1st
- **Modules Including:** Statistical Methodology (95%), Algebraic Topology (94%), Fourier Analysis (94%), Honours Complex Variables (92%), Operating Systems (91%), Several Variable Calculus (98%), Probability (97%), Introduction to Computer Systems (91%)
- **Dissertation:** Machine Learning and Metric Magnitude (86%)
- **Research Publication:** Approximating Metric Magnitude of Point Sets (Accepted at AAAI 2025)
- **Awards:** Kevin Clarke Memorial Prize for Top Performance in Computer Science and Maths UG4
- **Skills:** Mathematics, Statistics, Machine Learning, Python, PyTorch, Java, C/C++ , R, Linux, Git

Experience

Intern Cyber Security Consultant, Equilibrium Security – Birmingham, UK June 2024 – Aug 2024

- Developed an Avalonia .NET desktop application for OSINT Brand Monitoring. Created with C# and integrated existing JavaScript, Python scripts, and REST APIs, including mock server testing in Postman. Integrated SQLite database and automated Excel data handling.
- Developed a GUI for OSINT search results, with a filtration system using Regex and a JavaScript Excel framework to verify and deduplicate results. Maintained with a GitHub repository and with regular code reviews.
- Created a responsive React web part to streamline project scoping, using React Bootstrap for modern styling, and hosted it on a SharePoint site within the organization's infrastructure.
- **Skills:** .NET, HTML/CSS, C#, SQL, AWS, REST APIs, Git

Intern Software Engineer, xDesign – Edinburgh, UK June 2023 – Sep 2023

- Collaborated with a cross-functional team to design and develop a Payroll Calculator and Pension Pot Estimator from scratch in just 3 months for future white-labeling.
- Demonstrated the application at a company-wide event in front of 300+ people, facilitating beta testing and gathering user feedback.
- Quickly acquired knowledge of TypeScript, React, Sass, and Next.js to create a single-page application with data visualizations using Chart.js and custom UI components with React Select.
- **Skills:** TypeScript, React, Sass, Node.js, Agile, Git

Bartender, Bar Salsa – Edinburgh, UK Jul 2022 – Aug 2022

- Provided a quality and friendly service to all customers.
- Developed and maintained positive working relationships with fellow barstaff at the venue.
- Complied with alcohol licensing laws.