

# Matthew Stewart

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## EDUCATION

### Queen's University Belfast

Bsc Computer Science

Belfast, United Kingdom

Sep. 2021 - June 2025

- **First Class Honours**
- Areas of focus: Artificial Intelligence, Machine Learning, Cloud Computing & Software Development

### Monaghan Collegiate School

Leaving Certificate

Monaghan, Ireland

Sep. 2015 - June 2021

- 566 points
- Areas of focus: Maths (H2), Business (H1), Biology (H1), French (H2), Home Economics (H2), English (H3)

## EXPERIENCE

### Cyber-AI Research Assistant

CSIT

June 2025 – present

Belfast, United Kingdom

- Testing the security and alignment of AI language models in agentic workflows.
- Simulating adversarial attack methods to probe for and exploit novel attack vectors.

### Software Engineering Intern

Rapid 7

June 2023 – June 2024

Belfast, United Kingdom

- Developed an AI-powered tool to automate software vulnerability detection, reducing manual effort from 15 minutes to < 1 minute this also provided security coverage for 10,000+ customers against critical CVEs
- Resolved customer facing issues and developed backend components for the InsightVM platform, improving user experience and system reliability.
- Collaborated in an agile team, participating in daily stand-ups and bi-weekly sprint planning.

### Student Demonstrator

Queen's University Belfast

Sep. 2024 – Dec. 2024

Belfast, United Kingdom

- Provided hands on guidance and academic support for undergraduate students studying computer science.

## PROJECTS

### Feednet AI | B2B SaaS - NextJS, TypeScript, Supabase (PostgreSQL)

May 2025 - Present

- Developing a smart mill logistics platform for predictive animal feed ordering and transport optimisation in the UK/Ireland.
- Implementing AI models to predict farmer demand patterns, trigger stock alerts and optimise delivery routes.
- Building MVP with co-founder's and have secured a launch customer.

### Promptability | Python, Typescript, React, Docker, Firebase (NoSQL)

Sep. 2024 - May 2025

- A user friendly application for testing LLMs hosted on Hugging Face & Cloudflare
- Systematically evaluate, analyse and compare LLM responses
- Create and manage a custom content library & build prompting templates

### Artificial Neural Network for Automated Fake Review Detection | Python, Tensorflow, Keras

Mar. 2025

- Created and compared multiple neural network architectures (RNN, LSTM) to distinguish between human written and AI generated reviews, applying optimisation techniques to maximise performance
- The final LSTM-RNN model achieved 90% accuracy and 93% recall with an AUC score of 0.98

### Automated facial detection | Matlab

Dec. 2024

- Evaluated multiple feature extraction techniques (HOG, LBP, Gabor, edge detection) and classification algorithms (SVM, Random Forest, KNN, Logistic Regression) for automated facial detection.
- Implemented a sliding window detection algorithm with non-maxima suppression and multi-scale processing to achieve facial detection in complex group photographs.

## TECHNICAL SKILLS

**Languages:** Python, Java, Typescript, PostgreSQL/NoSQL, HTML, CSS

**Frameworks & Libraries :** Nextjs, FastAPI, Springboot, Tensorflow, Keras

**Developer Tools:** Git, Docker, Kubernetes, Postman