# William Winterflood

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## Education

**University of Leeds**, MEng BSc in Computer Science and Artificial Intelligence     September 2023 – June 2027
- Key Modules: Artificial Intelligence (85%), Software Engineering Team Project (85%), Numerical Computation (80%), Web Application (85%)

## Relevant Experience

**Technology Intern**, CCData     July 2024
- Collaborated with the Chief Product Officer to identify data quality issues and propose product improvements, enhancing the accuracy of digital asset datasets used by financial institutions.
- Designed analytical dashboards to monitor data reliability KPIs, improving visibility of user-facing product performance.
- Gained hands-on exposure to product lifecycle management in a fintech environment.

**Junior Software Developer**, Rebuilding Society     June 2025 – September 2025
- Contributed to smart contract architecture and backend systems for insurance products, improving transparency and scalability
- Enhanced both backend (Node.js and TypeScript) and frontend (React.js) features in an AGILE environment, collaborating with designers and product leads to improve user experience and reliability.
- Delivered a feature usage report that guided product prioritisation for subsequent release cycles.

**Prompt Engineer** (Part-Time), Outlier AI     December 2024 – Present
- Design, refine and test prompt templates to improve model reasoning and contribute to the development for LLMs.
- Provide structured feedback on model outputs and assist in building datasets that enhance alignment, safety, and performance of generative AI systems.

**Maths Tutor**     October 2022 –January 2023
- Delivered tutoring sessions with A-Level Maths students in after school sessions.
- Strengthened communication and mentoring skills through personalised teaching strategies.

## Projects

**AI-Driven Feature Prioritisation Tool**     github.com/name/repo
- Developed a web application that uses machine learning to analyse user feedback product features by potential impact.
- Integrated Sci-kit learn (Python) for sentiment analysis and a React dashboard for visualisation.
- Applied some product management skills including defining an MVP scope, measuring adoption metrics and iterating based on simulated A/B results.

**AI-Enhanced Cybersecurity Threat Detector**     github.com/ThreatDetect
- Built and deployed a FastAPI-based AI threat detection service that analyzes network logs in real time using anomaly-scoring models to flag suspicious activity.
- Designed REST endpoints for predictive inference, data ingestion, and live alerting, enabling automated severity classification and seamless frontend integration via CORS.

**Procedural Dialogue generation in Games using Generative AI (ongoing)**
- Investigating how generative AI can be constrained to produce context-aware, coherent dialogue within interactive game environments.

## Achievements

**Leeds Hackathon 2025**, National Competition Winner     February 2025
- Built a P2P insurance prototype, leveraging blockchain to automate claims management, in 24 hours.
- Worked in a team of 4 and won against 80+ other talented participants.

## Technologies

**Languages:** C++, C, Java, C#, SQL, JavaScript, OpenGL, MATLAB, TypeScript, Solidity, Python and SQL