LOUIS WARREN
Computer Science Student | Finance | Business

Contact Information:
+44 7526 204736 | Louiswarren@tuta.com | www.linkedin.com/in/louis-warren

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PROFESSIONAL SUMMARY
A highly analytical and driven Computer Science student with a proven talent for quantitative finance. Combines a rigorous technical background in software engineering and machine learning with practical experience in financial analysis, algorithmic trading, investment management and engineering. Eager to apply a unique skill set to solve complex problems at the intersection of technology and finance.

PROFESSIONAL EXPERIENCE

Laver Wealth (Upcoming) - Weston-Super-Mare, UK | *Summer 2025 (6-Week Internship)*
- **AI & Investment Analyst Intern**
  - Will contribute to investment decision-making within the wealth management team.
  - Tasked with the creation and evaluation of AI-driven trading models to identify new investment opportunities.

Griff Investment Fund - *York, UK | September 2024 – June 2025*
- **Financial Analyst:** CCS (Cloud Computing and Software)
  - Student managed investment fund with over £20k in assets.
  - Experience includes coordinating and working with the CCS team to research and create DCF's, create slide decks to support high conviction thesis and pitching these and equity updates to the fund (approx 50 individuals).

Army Reserves – Non-Deployable - *York, UK | September 2024 – June 2025*
- **Officer Cadet:** University Officer Training Corps (UOTC)
  - Non-deployable army reserves. Training in field craft, leadership and resilience.
  - Weekly training, with occasional weekend training exercises. Training includes urban warfare and rural warfare within the context of the Rifles regiment.

Rolls-Royce plc (13-Month Internship) *-Defence - Bristol, UK | July 2023 – August 2024*
- **Placement 1 (6 Months):** Core Engineering
  - Researched and recommended new tools and methods, laying out plans for an initial rollout across the Bristol site (2000+ employees).
  - Developed a system to report manufacturing data (a key step in helping a £10 million cost saving program) and communicated with global export control teams to assess risks.
- **Placement 2 (5 Months):** Future Methods
  - Developed and enhanced revolutionary software under R&D aiming to speed up key computational processes by 100-1000x, demonstrated capabilities to Computational fluid dynamic (CFD) teams and specialists.
  - Gathered feedback, proposed and implemented solutions for software improvement, collaborating with senior specialists across divisions and sites.
- **Placement 3 (2 Months):** Programme Management
  - Shadowed the SVP of early programs (£150 million + total), including strategy and financial meetings.
  - Coordinated the update of the Program Management Plan for a large program (tens of millions + per year). Defined financial processes for this program and coordinated transformation activities, as well as gaining exposure to strategic business management.
- **Additional achievements:** Led training sessions, managed stakeholder communications, invited and hosted a client from Germany to our Bristol site.

Other Work Experience:
- **Lloyds, Airbus, Walischmiller Engineering, Costain:** Gained diverse industry insights through multiple internships focusing on engineering and business.
- **Tesco (Nov 2020 – June 2021):** Developed customer service skills as a checkout assistant.

EDUCATION
Undergraduate:
BSc (Hons) Computer Science with a Year in Industry
The University of York | 2021-2025 | Achieved: First Class Honours
- **First & Second Years:**
  - Software: Introduction to Python (89%), Object Oriented Data Structures and Algorithms (63%), Functional Programming with Applications (86%)
  - Theory: Foundations of Mathematics for CS (83%), Formal languages and automata (69%), Computability & Complexity (76%)
  - Systems and devices: Introduction to Computing Systems (85%), System Software & Security (73%), Advanced Computer Systems (78%)
  - Data: Introduction to Data Science (46%), Data Analysis & Management (78%)
  - Human Computer Interaction: Introduction to User Centred Design (71%), User Experience (78%)
  - Eng 1: Introduction to Software & Systems Engineering (84%)
  - Intelligent systems: Search & Representation (66%), Machine Learning & Optimisation (78%)
- **Third Year:**
  - Dissertation: "Deep Learning for Daily Equity Returns: Using Macroeconomic and Institutional Flow Indicators" - *(Developed a novel LSTM model that provided **preliminary evidence** for the institutional flow theory, leading to **ongoing research collaboration** with two university economics professors.)*
  - Autonomous Robotic systems Engineering (69%)
  - Qualitative approaches to UX (74%)
  - Evolutionary and Adaptive Computing (59%)
  - Intelligent Systems: Probabilistic and deep learning (70%)

A-Levels (2019 - 2021):
Bristol Cathedral Choir school: Achieved (AAB)
Further Mathematics (B), Mathematics (A), Physics (A)
During this period, I took part in Access to Bristol (University of Bristol) and HE+ (University of Cambridge)

TECHNICAL SKILLS
- **Programming Languages:** Python, Java, C, SQL, HTML
- **Software & Tools:** Power BI, Jupyter Notebook, Anaconda, SQL server, Excel, Xilinx
- **Frameworks & Libraries:** NumPy, Pandas, Matplotlib, Pytorch, TensorFlow
- **Other Skills:** Agile Methodologies, Financial Analysis, Client Relationship Management, Business Communication, Sales & Negotiation, Presentation Skills

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PROJECTS & ACHIEVEMENTS
- **Griff Trading Competition (Winner):** 1st place with a portfolio return of over 50%, decisively outperforming the next best return of 15%.
- **Quantum Hackathon:** Attended a 3-day event hosted by the NQCC, gaining experience in quantum computing and its applications.
- **Java Game Development:** Developed a 2D game using a Java game engine.
- **Machine Learning & Data Analysis:** Together with a team, developed an AI model capable of predicting species of flowers with a 72% accuracy using the Oxford 102 dataset within a 1 week time period.

ADDITIONAL INFORMATION
- **Languages:** Fluent in English and conversational proficiency in French.
- **Hobbies:** Grade 5 pianist, Blue Belt in Karate. College squash team player
- **Additional Awards:** Duke of Edinburgh Silver Award, National Citizen Service Program completion.
- **Additional interests:** subscribed to the Financial Times, reading "World Order" by Henry Kissinger, interested in geopolitics. Keen traveller (Recently travelled to Thailand).
- **Volunteering:** Volunteered in Zaporizhzhia (eastern Ukraine) with the charity HopeFull (Food Aid) in August 2024. 6 months volunteering with the National Trust.

REFERENCES
Available upon request.