

Louis Harry Theodorou

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PROFILE

Technology-focused analyst with a strong background in AI systems, data analysis, and large-scale technical platforms. Experienced in evaluating complex technical systems, translating technical insights into strategic recommendations, and supporting decision-making across engineering and leadership stakeholders. Combines hands-on experience building machine learning and data platforms with strong analytical and research skills developed through engineering and computer science training. Particularly interested in technology strategy, emerging technologies, and how organisations evaluate and deploy new technological capabilities at scale.

EXPERIENCE

SITA

Feb 2026 – Present

AI Integration Engineer

London

- Partner with departments across the organisation to identify operational pain points and inefficiencies in existing workflows.
- Map and analyse end-to-end business processes, translating requirements into AI-driven solutions using agent-based architectures.
- Design and deploy AI agents using Microsoft Copilot Studio to automate tasks, enhance decision-making, and improve workflow efficiency.
- Developed an M&A integration agent to support post-acquisition onboarding, enabling teams to efficiently integrate newly acquired companies into SITA systems.
- Achieved a **98% quality score** in evaluation, demonstrating high accuracy and reliability in real-world usage.
- Support adoption of AI tools by guiding stakeholders on effective usage and embedding solutions into day-to-day operations.

XCO2 Energy Ltd

Sep 2024 – Mar 2025

Platform Lead & Technical Consultant

London (Hybrid)

- Led the design and deployment of a production Python/PostgreSQL platform supporting reporting and analytics across **100+ live engineering projects**.
- Analysed operational data and project workflows to design scalable systems improving reporting accuracy and decision-making across internal teams.
- Collaborated with leadership and technical stakeholders to prioritise platform improvements and align technical solutions with organisational needs.
- Reduced report delivery time by **70%** through automation and improved data architecture.
- Produced documentation and technical guidance enabling non-technical teams to interpret outputs and integrate the platform into operational decision processes.
- Evaluated alternative technical approaches and tools during platform development to ensure scalability, reliability, and long-term maintainability.

Stony Brook University — Machine Learning Lab

Jun 2024 – Sep 2024

Visiting Scholar

Incheon, South Korea

- Conducted research on machine learning approaches for event extraction, analysing model performance across different architectures and datasets.
- Improved model performance from F1 0.51 to 0.619 (**21% uplift**) through systematic evaluation, feature engineering, and architecture selection.
- Developed reproducible experimentation workflows to support structured model evaluation and comparative analysis.
- Documented experimental results and technical findings to support future research and development.

JP Morgan

Oct 2023

Legal Work Experience — Derivatives

London

- Observed how complex technical and legal systems rely on structured analysis, precise evaluation, and clear written communication.

Lucy Walker Recruitment

Sep 2022 – Jan 2023

Project Data Administrator

Leeds

- Maintained high-quality structured datasets and documentation, reinforcing the importance of reliable data management and analysis.

EDUCATION

University College London <i>MSc Computer Science (Merit)</i> Key modules: Machine Learning with Big Data, Algorithms and Data Structures, Databases, Software Engineering.	2023 – 2024 <i>London</i>
University of Leeds <i>BEng Chemical and Energy Engineering (First Class Honours)</i> Strong analytical, mathematical, and problem-solving foundation.	2019 – 2022 <i>Leeds</i>

SELECTED PROJECTS

FairView — LLM-Based Bias Detection & Evaluation Pipeline – Designed an end-to-end NLP evaluation pipeline combining LLMs, RoBERTa, semantic role labelling, and sentiment analysis. – Developed structured evaluation metrics (precision, recall, F1) to assess model behaviour across multiple documents. – Produced interpretable reports highlighting patterns and insights from model outputs to support analytical decision-making.	2024
Crowdfunding Platform for Schools – Built a full-stack application using React, Node.js, and Azure with clearly defined APIs and deployment workflows.	2024

SKILLS

Technical: Python, machine learning, NLP, LLM systems, REST APIs, PostgreSQL.
Analytical: technology evaluation, performance analysis, experimentation design, benchmarking, structured research.
Strategy & Communication: technical documentation, stakeholder communication, translating technical insights for decision-making.
Platforms: Azure, modular system architecture, data pipeline design.

ADDITIONAL

- Volunteer with Life in London Trust, co-ordinating homeless outreach runs and logistics.
- Strong interest in emerging technologies including AI, cloud infrastructure, and their strategic adoption across large-scale technology platforms.