LIAM DÜRO

+49 1625165782 liam.duero@gmail.com https://liamduero.info/linkedin

EDUCATION

University College London **London, United Kingdom | Sep 2025 – Sep 2026**
MSc Data Science and Machine Learning – Distinction average on taught modules; thesis result pending
Thesis: Empirical Evaluation of Pre-Embedding Design Choices for RAG over 3GPP Specifications (Supervisor: Prof. Jagmohan Chauhan)
Relevant modules: Reinforcement Learning (with Google DeepMind), Applied Machine Learning, Statistical Data Science

Trinity College Dublin **Dublin, Ireland | Sep 2021 – May 2025**
BA Computer Science and Business Studies – First Class Honours (74%)
Exchange Year at University of Sydney (2023-2024)
Final Year Project: Engineered a Python data pipeline to ingest metrics from a virtualized 5G network using Telegraf and InfluxDB to simulate disaggregated RAN deployments for telecom energy optimisation research

PROFESSIONAL EXPERIENCE

BMW Group **Munich, Germany | Oct 2026 – Mar 2027**
Machine Learning Engineering Intern
- Developing anomaly detection solutions on tabular operational data, combining statistical/ML methods with rule-based logic
- Building workflow automation with n8n to streamline internal processes and integrate data sources
- Member of the Supply Chain Innovation think tank

Huawei Paris Research Center **Paris, France (Remote) | Feb 2026 – Sep 2026**
Postgraduate Researcher
- Pipeline and benchmark adopted by the GSMA Open Telco AI Initiative as the basis for an industry competition
- Evaluated 120 pre-embedding RAG configurations (5 chunking strategies × 4 enrichment methods × 6 embedding models) on 3GPP Release 19, then stress-tested six with 11 generators, 3 reranking conditions and 2 prompts
- Built a 1,227-question telecom benchmark with an automated QC pipeline (LLM-judge panels, answerability and difficulty filters) and expert review by GSMA and Huawei specialists
- Built a modular Python RAG pipeline without off-the-shelf frameworks, and distilled results into a recommendation matrix of configurations by deployment setup (reranker, latency budget, available embedders)

Tuomi **Luxemburg, Luxemburg | May 2025 – Jul 2025**
Data Science and Backend Development Intern
- Developed software solutions using PHP, Laravel, and generative AI APIs (OpenAI, Gemini & DeepSeek) to automate complex data workflows and optimise system architecture
- Performed software testing and provided technical client support to resolve live server issues

ACHIEVEMENTS

Project Lab Lead at UCL Data Science Society **London, United Kingdom | Oct 2025 – May 2026**
- Designed and delivered technical data science and machine learning workshops for a pilot programme mentoring 85+ students, securing the UCL Award for Best Contribution to Professional Development and a formal Society Commendation

German & Irish Chess Federations **Germany & Ireland | 2015 – Present**
- Attained a peak official chess rating of over 2000 and competed at both the German and Irish National Chess Championships

Technical Projects **| 2023 – Present**
- Conceptualised and engineered a personal browser extension (AI Prompt Manager) featuring a custom UI to optimise AI workflow productivity, alongside building a modular web portfolio

ADDITIONAL SKILLS

Technical Skills
Python, Java, JavaScript, SQL, PHP, TensorFlow, Scikit-Learn, PyTorch, Pandas, NumPy, Docker, Git, InfluxDB, Telegraf, vLLM, RAG, ChromaDB, Claude Code, Github Copilot, n8n

Languages
English (Native), German (Native), Irish (Intermediate), French (Intermediate)