

Fergal Riordan

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PROFILE

AI Engineer with **1 year of professional experience** building production-ready AI systems and **2 years of freelance experience** in AI data annotation. Experience spans agentic AI development for B2B SaaS, RLHF data annotation for LLMs, and generative AI research in GAN-based architectures. Earned First-Class Honours MEng and BEng degrees in Electronic & Computer Engineering from Trinity College Dublin.

TECHNICAL SKILLS

Key Competencies:	Agentic AI, Generative AI, ML Research, Model Fine-Tuning, Prompt Engineering
Languages:	Python, SQL, C
Frameworks & Libraries:	LangChain, LangGraph, PyTorch, Pandas, NumPy
Developer Tools:	Microsoft Azure, Azure AI Services, Cosmos DB, Docker, Git

EXPERIENCE

AI Engineer <i>Channelscaler</i>	May 2025 – Present <i>Galway, Ireland</i>
Overview of AI Features <i>Python, Microsoft Azure, Azure OpenAI API, Azure Document Intelligence, Cosmos DB</i>	
<ul style="list-style-type: none">Co-developed the platform's first AI agent, focusing on deal registration. The agent retrieves deal information, identifies potential duplicates, and automates checks, boosting efficiency and reducing manual review time.Architected agent orchestration, implementing tool-usage functionality for autonomous actions.Enhanced an OCR-based invoice auditing pipeline using Azure Document Intelligence by fine-tuning key-value extraction models and expanding field coverage to support additional audit checks.	Sep. 2023 – Apr. 2025 <i>Remote, Ireland</i>
AI Data Annotator <i>Data Annotation Tech</i>	
Overview of AI Features <i>Python, Prompt Engineering, RLHF</i>	
<ul style="list-style-type: none">Trained and refined AI coding agents using RLHF and prompt-engineering techniques.Qualified for a domain expert team through consistent success in performance assessments, focusing on advanced CS topics including the evaluation of AI coding assistants integrated into modern IDEs.	

RESEARCH & SELECTED PROJECTS

Master's Thesis: Enhancing CycleGAN for Day-to-Night Image Translation View Project	Sep. 2023 – May 2024
Overview <i>Python, PyTorch, GANs, Transfer Learning, Computer Vision, Deep Learning</i>	
<ul style="list-style-type: none">Improved CycleGAN performance for day-to-night image translation using transfer learning, a content-style disentangling scheme, and a novel timestamp conditioning architecture.Achieved an improvement of 20% on the Kernel Inception Distance metric over the baseline model.Earned a First-Class Honours grade of 82% for the research.	

EDUCATION

Trinity College Dublin <i>Master of Engineering & Bachelor of Engineering in Electronic & Computer Engineering</i>	Dublin, Ireland Sep. 2019 – May 2024
<ul style="list-style-type: none">MEng: First-Class Honours (1.1), 80%BEng: First-Class Honours (1.1), 72%Erasmus semester at the University of Iceland, Reykjavik	
Christian Brothers College <i>Leaving Certificate</i>	Cork, Ireland Sep. 2013 – Jun. 2019
<ul style="list-style-type: none">Ranked in top 70 students nationally625 points (7 H1 grades, 1 H2 grade)	