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| Fergal RiordanIreland (Willing to Relocate)| +353 838754381 | [fergalriordan333@gmail.com](mailto:fergalriordan333@gmail.com) | [Portfolio Website](https://fergalriordan.github.io/) | [GitHub](https://github.com/fergalriordan) | [LinkedIn](https://www.linkedin.com/in/fergal-riordan/) |
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| |  |  | | --- | --- | | PROFILE | Software Engineer with a strong foundation in Python and AI agent development, demonstrated through hands-on experience in building scalable AI solutions for PRM platforms. Proficient in LLMs and generative AI, with a focus on creating efficient, high-impact software. Eager to contribute to a dynamic team and grow within a fast-paced environment. | |
| |  |  | | --- | --- | | TECHNICAL SKILLS | *Key Competencies*   **Agentic AI, Generative AI, AI Research**  *Programming Languages*  **Python, C, SQL, C++**  *Frameworks & Libraries*  **LangChain, PyTorch, OpenAI API, NumPy**  *Tools & Platforms* **Docker, Azure, Cosmos DB, Git** | |
| |  |  |  | | --- | --- | --- | | PROFESSIONAL EXPERIENCE | | | | May 2025 — Present | **Software Engineer - AI Team, Channelscaler** | Galway, Ireland (Hybrid) | | *Azure, Python, Cosmos DB, OpenAI API*   * Contributed to the company’s first AI team, delivering automation features and agentic workflows for a leading AI-powered Partner Relationship Management (PRM) platform. * Co-developed the company’s first AI agent, combining Cosmos DB NoSQL query-based information retrieval with autonomous actions such as sending client emails and updating database records. | | | Sep 2023 — Apr 2025 | **AI Data Annotator - Software Development, Data Annotation Tech** | Remote | | *Python, Prompt Engineering, RLHF*   * Trained LLM-based chatbots for advanced programming and data science tasks through RLHF and A/B testing, applying analytical techniques and prompt engineering skills. * 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. | | |
| |  |  |  | | --- | --- | --- | | RELEVANT PROJECTS | | | | Sep 2023 — Apr 2024 | **Master's Thesis: Enhancing CycleGAN for Day-to-Night Image Translation** |  | | View Project  *Python, PyTorch, GANs, Transfer Learning, Deep Learning*   * Improved CycleGAN performance 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 high First-Class Honours grade of 82% for the research. | | | Feb 2025 — Mar 2025 | **Automated Web Development with the DeepSeek API** |  | | View Project  *Python, TypeScript, Flask, React, API Integration*   * Built a tool to generate full-stack web apps from natural language prompts using the DeepSeek API. * Implemented a Flask backend and React frontend for automated code generation and file download. | | |
| |  |  |  | | --- | --- | --- | | EDUCATION | | | | Sep 2019 — May 2024 | **MEng and BEng, Electronic & Computer Engineering, Trinity College Dublin** | Dublin, Ireland | | * Master’s Result: 1.1 (80%) * Bachelor’s Result: 1.1 (72%) * Erasmus semester at The University of Iceland, Reykjavík | | | Sep 2013 — Jun 2019 | **Leaving Certificate, Christian Brothers College** | Cork, Ireland | | * 625 points (7 H1 grades, 1 H2) * [Ranked among top 70 students nationally](https://www.thejournal.ie/leaving-cert-results-8-4762762-Aug2019/) | | |
| |  |  |  | | --- | --- | --- | | EXTRA-CURRICULAR ACTIVITIES | | | | Sep 2021 — May 2022 | **Control Team, Formula Trinity** | Dublin, Ireland | | * Participated in Formula Student AI, an international engineering competition where teams design autonomous race cars to compete in tasks such as driving, obstacle avoidance, and precision navigation. * Implemented control algorithms (PID, Model Predictive Control) for the self-driving vehicle, enhancing precision and responsiveness for FS-AI competitions. * Gained hands-on experience in a large-scale software project, learning to solve complex problems in a collaborative team environment. | | |
| |  |  | | --- | --- | | LANGUAGES | **English** Native speaker  **Irish** Fluent (C1)  **French** Conversational (B1)  **Spanish** Basic (A1)  **German** Basic (A1) | |
| |  |  | | --- | --- | | SOFT SKILLS | * *Strong Work Ethic:* Honest and hard-working mindset instilled through background on a family farm and reflected in academic achievements. * *Communication Skills:* Developed through part time work in high-pressure hospitality roles. * *Innovative & Ambitious:* Evident through the completion of a challenging Master’s thesis and ongoing skill development in emerging technology. * *Cultural Adaptability:* Enhanced by Erasmus semester and a long-standing passion for language learning. | |

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| HOBBIES | * *Soccer:* Played 11-a-side soccer throughout my teenage years and continue to play 5-a-side regularly. * *Water Sports:* Advanced SSI certification in scuba diving; enjoy surfing and sailing regularly during summer. * *Guitar:* Proficient in both acoustic and electric guitar, with experience spanning over 15 years of playing and performing. |