

Aidan Roche

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EDUCATION

College

University College Cork (UCC)

B.A.(Hons) Psychology & Computer Science

2024, Cork City, Ireland

Degree Results

4.0 GPA | *First Class Honors*

Final Year Project

Result: 1H1 (First Class Honors)

An Exploration Into the Potential Use of Gamification and Conversational Learning in AI Ethics Education

High School

Barrington High School

High School Diploma

2017-2021, Barrington, Rhode Island, USA

SKILLS

ML Frameworks:

- PyTorch
- TensorFlow

Data Analytics Frameworks:

- Pandas
- NumPy

AI/ML:

- Model Development & Deployment
- Machine Translation & NLP

Human-Centered Design:

- Human-Computer Interaction (HCI)
- Human Factors
- Cognitive & Applied Psychology

OBJECTIVE

I am a young professional, with a unique multi-disciplinary background in AI/ML, Computer Engineering, and Human Factors. I am looking to take the next step in my career, and am excited by the challenge of developing and implementing technology with a genuine impact. I have proven experience in areas such as Machine Translation and Human Factors, and excel at bridging the gap between people and technology.

WORK EXPERIENCE

Service & Repair Technician | Micro Center

Cambridge, Massachusetts, USA | November 2025 - Current

- Perform advanced system analytics and hardware diagnostics to determine failure points and solutions for a variety of systems
- Own the full diagnostic-to-resolution lifecycle, identifying root causes and implementing effective solutions within tight turnaround windows.

AI/ML Technology Intern | Johnson Controls

Cork City, Ireland | Oct 2024 – May 2025

- Developed and began deployment for my own novel AI system that leveraged advanced NLP vectorization techniques to measure the quality of MT systems and synthesize high-quality data to support MT Engines for low resource languages.
- Led a cross-functional team to build and evaluate the business impact of my system in an internal competition, resulting in top 10% placement of ~1,000 teams.

Lecturer Assistant - Python | University College Cork

Cork City, Ireland | Feb 2022 – Apr 2024

- Supported undergraduate Computer Science labs, guiding students in Python-based algorithm design and debugging.

Human Factors Engineer Co-Op | Veranex, Inc

Providence, Rhode Island, USA | Summer 2022

- Conducted usability studies for medical device clients, analyzing user interactions to derive actionable insights
- Collaborated directly with the engineering and design team to implement findings into revised designs

ACTIVITIES & AWARDS

- [*UCC EmployAgility Award*](#)
- Competed on the Irish National Fencing Circuit
 - Was Ranked 10th in Ireland for Men's Foil Fencing
- Hackathons - *Virginia Tech & Muenster Tech University*