

Education

Dublin, Ireland **University College Dublin** **May 2026**

- BSc in Computer Science.

Westmeath, Ireland **Moate Business College** **May 2021**

- QQI Level 5 in Software Development. GPA: 4.0

Experience

Software Engineer Intern **Hewlett Packard Enterprise** **March 2025 – Present**

Galway, Ireland

- Working on the Innovation Engineering team under the Office of the CTO, developing proof-of-concept solutions that drive technological advancement within the company.
- Collaborating on cutting-edge projects involving cloud architecture, AI integration, and enterprise-level applications.
- Contributing to research initiatives that explore emerging technologies while improving software development processes through agile methodologies.

Professional Player **Nativz Gaming** **June 2022 – January 2023**

Dublin, Ireland

- I was contracted to compete in tournaments while representing an organization in VALORANT, a team-based first-person shooter. This role significantly enhanced my teamwork skills, including team improvement, developing a strong work ethic, and focusing on refining small details.

Skills

- C++, Python, Java, CSS, JavaScript, C, Golang
- Technologies: Git, PostgreSQL, Linux Terminal, nginx

Projects

- **Intelligent Screen Automation System** (Private – code or walkthrough available on request.) Built a cross-platform system (macOS & Windows) that captures screen content, performs OCR, and groups detected text lines based on geometric proximity and layout logic. Parsed grouped content using LLMs to extract context, generated answers, and used fuzzy matching to link responses back to screen locations. Simulated human-like interaction via mouse movement to execute context-relevant actions. C++, Tesseract OCR, OpenCV, WindowsAPI
- **BlackBox Board Game** (<https://github.com/CiaranMcDonnell/BlackBox>) I implemented Black-Box in Java, a hexagonal game involving ray-based deduction, adding features like a traversal pathing revealer, and developed it using agile methodology in sprints. Java, Maven

Activities and Achievements

- Captained Ireland's first contracted VALORANT team, representing the country in collegiate, national, and international competitions, including the Red Bull Campus Clutch in São Paulo and Istanbul, securing 5th place among 34 countries globally. Developed strong leadership, strategic communication, adaptability, and resilience under high-pressure conditions.

