Patrick Donnelly

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💼 [LinkedIn](#)   🌐 [Personal Website](#)   [GitHub](#)

- A 4th Year BSc Honours degree student specialising in Computer Games Development at Institute of Technology Carlow.
- Awarded a level 6 Advanced Certificate in Software Development.
- A strong technical aptitude. Software competent and swiftly acquainted with new systems.
- Proficient in C++ development. Experience with C#, HTML, CSS, Python and JavaScript programming.
- Experienced with working as part of a team through multiple years in the retail sector.
- Involved in several volunteer and leadership programs.

TECHNICAL SKILLS

- **Languages:** C++, C#, HTML, CSS, JavaScript, Python, 68k Assembly.
- **Tools:** Visual Studio, VS Code, Anaconda, Unity, pandas, Jupyter, Office suite, google suite.
- **Version Control:** Git, GitHub
- **Soft Skills:** Leadership, Teamwork, Project Management, Organisation, Communication.

EDUCATION

Institute of Technology Carlow, Carlow: **Sept. 2018 – March 2023**

- BSc Honours Computer Games Development.
- **Subjects Include:** Data Structures and Algorithms, Programming, Software Engineering, Graphics, Gameplay Programming, Web Development, Computer Architecture, Mathematics, Physics.

Project - Demonstration of pathfinding algorithms (Team Orientated):

- Demonstrate Pathfinding in a C++ based Game using the A* algorithm.
- Utilising an Agile working environment to efficiently manage our project.

Project - Gameplay simulation from a popular video game (Team Orientated):

- Simulate gameplay from a popular arcade shooter using C# scripts in Unity.
- Implement UI, physics, collision, particle effects, Shader graphs and VFX graphs.

Project - Developing a [Personal Website](#) (Independent):

- Develop a personal website to demonstrate HTML, CSS and JavaScript skills.
- Focus on creating a user friendly, minimalistic and familiar interface.

St. Conleth's College, Newbridge: **Sept. 2017 – May 2018**

- QQI Level 6 Advanced Certificate, Software Development.
- **Subjects Include:** Object Orientated Programming, Graphical User Interface Programming, Web Design, Project Management, Software Architecture, Mathematics, Communications.

Kildare Town Community School, Kildare: **Sept. 2011 – June 2013**

- Leaving Certificate.
- **Subjects Include:** Mathematics, Business, Accounting, English, French, Irish, Biology.
- Results available on request.

EMPLOYMENT HISTORY

Fitzpatrick's, Kildare: **Sept. 2016 - Ongoing**
Sales Assistant, Duties Include:

- Operating the weekend night shift from 10pm to 6am.
- Responsible for balancing sales figures for all shift periods when the manager is on annual leave.
- Managing the training of new team members.
- Stocktaking high value goods every day such as tobacco, oil and lottery products.
- Other general duties include delivering customer focused service, forecourt work, recording losses, writing order lists, unloading orders and checking incoming goods against invoices received.

Cleland's, Kildare: **Jan. 2015 – July 2016**
Sales Assistant, Duties Included:

- Upkeep of cash registers, shop floor and storeroom.
- Operating the cash register and handling cash.
- Processing orders and organizing stock.
- Dealing with customer queries.

VOLUNTEER EXPERIENCE

Institute of Technology Carlow   **Sept. 2019 – Oct. 2021**
President and former Public Relations Officer of the LGBTQ+ Society:

- Leading a committee of 10 elected members to plan and organise events for our delegation.
- Supported and led a team of 15 at one of Europe's largest Student Training events.
- Managing informative campaigns regarding Mental health, Sexual Health and Personal Wellbeing.
- Operating the social media pages, tailoring and creating topical content for the social media pages.

Institute of Technology Carlow   **Sept. 2020 – May 2022**
Peer Led Mentor Program and PAL Program Participant:

- Helping a group of first year students to build a healthy support network through online meetings.
- Highlighting and encouraging the importance of participation in extra-curricular activities.
- Creating and leading team building exercises and ice breakers with the group.
- Signposting academic and health services both on and off campus.

Society Led, Institute of Technology Carlow   **Nov. 2020**
Men's Mental Health Campaign:

- Our team raised €3,517.00 for Men's mental health. Personally ranked 75th of 1,389 students.
- Created and managed fundraising team that later joined forces with our Student Union team.
- Canvassed local businesses and reached out to people in the UK and Ireland for support.
- Liaised with mental health organisations and created advertising material for publicity.

ACHIEVEMENTS

- Led a team that raised €1,220 of €3,517 of our SU total for men's mental health. (**Nov. 2020**)
- Elected President of a Prominent College Society for the academic year. (**2020/2021**).
- Elected Public Relations Officer of a Prominent College Society for the academic year. (**2019/2020**)
- Accepted onto the Peer Led Mentor and PAL Programs to support incoming students. (**2020/2021**)

REFERENCES

- References available upon request.