Michael Rainsford Ryan

Games and Software Developer

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Third-year student of a BSc (Hons) in Computer Game Development at IT Carlow. A hardworking and motivated individual, top of the class and awarded distinctions in all subjects in first and second year and aiming for the same this coming year.

Experienced with Agile methodologies and programming practices for easily maintainable code, such as Object-Oriented Programming and SOLID design principles as well as UML modelling for planning and design.

Learned in many skills through work, education, and volunteering, notably, communication, teamwork, leadership and management, adaptability, and fast learning.

Technical Skills

- **Languages and Frameworks:** C++, C#, Java, Assembly, OpenGL and GLSL, Lua, Python, JavaScript and JQuery, HTML and CSS, Xamarin.
- **Technologies:** Game Engines (Godot, Unity, GameMaker), IDEs (Visual Studio, PyCharm, IntelliJ IDEA), Microsoft Office Suite (Word, Excel, PowerPoint).
- **Source Control:** Git and GitHub.
- **Software Design:** Object Oriented Design, SOLID Principles, UML.
- **Development Life Cycles:** Agile, SCRUM, Kanban Test Driven Development (using Gtests).

Education

Computer Game Development, Honours
Institute of Technology Carlow | 2018 – Present.
Distinction in all first- and second-year subjects (GPA: 90.17 first and second year).

Subjects: Data Structures & Algorithms, Software Engineering, Human Computer Interaction, Gameplay Programming, Web Development & Databases, Applied Physics, 3D Graphics.

Games and Apps Development, QQI Level 5
Carlow Institute of Further Education | 2017 – 2018.
Awarded six distinctions and two merits.

Experience

Bar Associate
Tullow Gate (Wetherspoons), Carlow | 2019.

- Tended to customers and handled orders in a fast-paced environment.

- Maintained cleanliness and appearances of the workplace without slowing customer service.

General Assistant
Data Print, Athy | 2016-2018 (Work Experience and adhoc days).

- Worked towards deadlines to make sure all printing jobs were completed on time.
- Did basic graphic design of business cards, posters, and pamphlets.

Radio Assistant
Together FM, Dublin | 2017.

- Hosted a daytime radio show.
- Interacted with listeners and recorded interviews.
- Edited interview clips.

Achievements

- Published six small games with more than 100 downloads overall and over 100 plays on one browser-based game alone.
- Won Best Original Innovation in Gaming and Best UI Design awards in the Games Fleadh 2020 games competition.
- Won first place in RoboCode 2019, Games Fleadh's team-based AI Programming competition.
- Chosen to represent IT Carlow in a promotional campaign due to impressive extracurricular projects. Interviewed for campaign video and modelled for promotional signage.
- Chairperson and President of IT Carlow's Game Maker's Club, a group for those passionate about making games to share ideas and collaborate on projects.

Volunteering

- PRO, social media manager, committee member, and leader for Aontas Ogra Youth Club in Athy and helped to start a new youth club in Laois.
- Nominated class representative for second year in IT Carlow.
- Nominated class representative, vice chairperson, secretary and social media manager of the student council for the duration of the course in Carlow IFE and received nomination for student of the year.
- Helped with the Triathlon in Athy (TriAthy) in the past and with an orienteering group in Galway for a big event.

References

Available on request.