

SOFTWARE DEVELOPER

Details

Edinburgh
Scotland
07795422756
purplemoonone@gmail.com

Links

Portfolio Website

DARE Academy

Professional Project

LinkedIn Profile

Skills

Programming C++

Graphics Programming (DirectX 12)

Data Structures and Algorithms

Applied Mathematics

Debugging (Visual Studio, PIX)

Software Development

Communication Skills

Hobbies

Programming Blender (3D Modelling) Films

Video Games

Languages

English - C2 (Native)

French - A2

Profile

Software Developer with 6 years of experience, including 2 years in the games industry. Proficient in C++, Direct X 12, and HLSL with expertise in graphics programming, rendering systems and debugging. Experienced in developing and optimising game engines and low-level rendering pipelines. Background includes implementing a C++/Direct X 12 game framework and integrating support for PlayStation 5.

Education

BSc (Hons) Computer Games Technology, University of Abertay Dundee, Dundee

SEPTEMBER 2019 - MAY 2023

Grade Achieved: First-Class (1:1)

Notable Grades Achieved:

- CMP418 Programming Animation Systems: A+
- CMP400 Honours Project Proposal and Execution: A+
- CMP303 Network Systems for Game Development: A+
- CMP301 Graphics Programming with Shaders: A
- CMP201 Data Structures and Algorithms 1: A
- CMP202 -Data Structures and Algorithms 2: A
- CMP305 Procedural Methods: A
- MAT301 Mathematics and Artificial Intelligence, Unit 1: A
- CMP105 Game Programming: A+

Employment History

Software Developer, 4J Studios, Dundee

OCTOBER 2023 - PRESENT

- Developed and maintained game systems in C++, with a focus on performance and scalability.
- Improved debugging skills in both C++ and HLSL, ensuring stable and optimized rendering pipelines.
- Implemented and integrated support for rendering middleware, enhancing engine capabilities and flexibility.

Research Fellow, Abertay University, Edinburgh / Dundee

JULY 2023 - SEPTEMBER 2023

I contributed to the design and development of a proprietary framework for future Abertay undergraduates. My work focused on creating an abstracted Amplification and Meshlet shader pipeline, implemented with the DirectX 12 API. Additional contributions included:

- Integrating ENTT into the DirectX 12 and PS5 frameworks
- Developing an abstracted rendering API
- Enhancing the efficiency and robustness of the DirectX 12 heap allocator

Customer Assistant, Tesco PLC, Dundee

JUNE 2022 - OCTOBER 2022

Friendly and approachable customer assistant with a proven ability to deliver excellent service in fast-paced retail environments. Skilled in handling customer inquiries, resolving issues with empathy, and ensuring a positive shopping experience. Experienced in maintaining store presentation, managing stock, and supporting smooth day-to-day operations. Strong communicator with a team-oriented mindset, consistently contributing to sales goals while building lasting customer relationships.

Online Shopper, Sainsburys PLC, Dundee

OCTOBER 2018 - JUNE 2021

Organised and detail-oriented online shopper with experience fulfilling customer orders accurately and efficiently in a fast-paced retail environment. Skilled at selecting high-quality products, managing substitutions, and ensuring timely order preparation to meet customer expectations. Reliable team player with strong time-management skills and a focus on delivering excellent service through accuracy, speed, and attention to detail.

Extra-curricular activities

DARE Academy, SnakeBride Software, Dundee

JUNE 2022 - SEPTEMBER 2022

In the summer of 2022, I participated in Abertay University's DARE Academy game development competition, joining SnakeBride Software as a General Programmer/Producer, where I helped the team reach the finals.

As a General Programmer, I contributed to the development of:

- Procedural clouds, particle systems, and animated/shaded foliage
- Volumetric lighting and fog systems
- An interactive water shader

As a Producer, my responsibilities included:

- Breaking complex problems into manageable sub-tasks
- Leading daily 10–15 minute stand-up meetings
- Ensuring clear communication and team well-being throughout development

Treasurer, Abertay Game Development Society, Dundee

SEPTEMBER 2019 - MAY 2020

As Treasurer of Abertay's Game Development Society, my responsibilities went beyond managing the society's budget and included:

- Overseeing student health and safety during game jam events
- Volunteering at the Global Game Jam 2020
- · Assisting in securing guest speakers for society events

References

Gareth Robinson from Abertay University Dundee

g.robinson@abertay.ac.uk | 8235