# Aryan Rallan

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## ABOUT ME

I am a passionate Computer Games Programming student who has finished my second year at Kingston University, actively seeking an entry-level position to launch my career in the video game industry. With a strong foundation with C-based languages and hands-on experience with game engines like Unreal Engine and Unity, as well as other platforms (see Academic Projects), I am eager to build my skills, deepen my experience, and grow both as a developer and a professional.

#### SKILLS

- Experienced with C-based programming languages including C++ and C#
- Background in Game-engines including Unreal Engine and Unity, and C++ based engines
- Logical and creative problem solver with the ability to determine the best/most efficient outcomes, when debugging and optimising code
- Good IT skills, including the use of the Microsoft Office applications
- A confident communicator, able to convey ideas clearly exemplified through presenting projects at university
- **Teamwork** and **leadership** skills, adapting my approach according to the situation when working as a bartender and group lead programmer for a project at university
- Learn new tasks quickly, such as techniques when coding with C++, scripting with C#, creating shaders in Opengl, as well as using different game engines for my academic coursework
- Strong organisational and prioritisation skills, working accurately under pressure, managing my time effectively to meet continuous project deadlines at university

#### EDUCATION

### Kingston University London

BSc (Hons) Computer Games Programming

- Games Programming 78%
- Games Science 58%

Kingston upon Thames, U.K Sept. 2023 – Current

- Sept. 2025 Carren
- 3D Graphics Programming and Artificial Intelligence
- Professional Game Development Environments
- Introductory Digital Media and CGI

#### Lampton School

High School/Sixth Form Qualifications

Hounslow, U.K

2016, 2023

- A-Levels: Economics C, Computer Science C, Psychology C
- GCSES: 10 GCSES (5-8) including Mathematics 7, English 6 and Computer Science 8

#### EXPERIENCE

## Bartender Polar Events

Sept. 2023 – Ongoing

Twickenham, UK

• Worked collaboratively with my team to ensure customers received their orders in a timely and accurate manner

- Dealt with customer concerns promptly and efficiently to ensure customer satisfaction
- Succinctly communicated with team members to offer or receive assistance when necessary

## Unreal Engine Game - Forsaken Wilds: Ascend

Jan. 2024

Requirements Analysis and Design for Games

- · Collaborated with a team to conceptualise and design a game from graphical style, gameplay and story
- Developed a game design document which outlined how the game mechanics worked in addition to an implementation plan
- Implemented multiple enemy and projectile variants using an object-oriented approach
- Engineered player shaders/ dynamic material to show feedback of player actions in addition to a responsive player interface
- Designed and implemented a dynamic camera system that locks onto a specific area when the player enters and resumes following the player once they exit
- Leveraged the Niagara VFX system to simulate fireflies and integrated it as a gameplay mechanic
- Created and presented a fully-featured prototype of the first level

## Unity Game - Sonic Clone

Jan. 2025

Professional Game Development Environments

- Created player movement driven by realistic momentum and physics
- Produced sound effect variance to enhance player experience
- Designed and developed a level to support the game mechanics

## C++ Game - Brittney's Bad Day

Dec. 2023

Games Programming

- Implemented enemies and their projectiles through the use of pointers and managed them through dynamic arrays
- Created a variety of assets, including sprites from sprite sheets and sound effects
- Implemented procedural difficulty scaling after each wave, allowing for seemingly infinite progression of waves
- Constructed an upgrade system for the player to create a sense of progression for the player

# Unreal Engine Game - Nova Passage

Apr. 2025

Professional Game Development Environments

- Implemented a robust parkour system including dashing, wall running and wall jumping
- Collaborated with a team to meet deadlines to a high standard
- Created modular systems for the player to support gameplay
- Designed a responsive HUD for the player
- Developed a Niagara VFX system to simulate meteors

### Pathfinding Algorithm

Nov. 2024

3D Graphics Programming and Artificial Intelligence

- Used the A\* pathfinding Algorithm to allow the player to traverse nodes based on where on the screen the player clicked
- Developed enemy AI to control chess pieces, enabling them to move according to their designated piece movement rules while strategising to escape and capture the player's pieces

#### Interests

Passionate about acting - achieved an 8 in GCSE Drama and enrolled in an acting academy, participating and performing in stage productions.

Indulge in gaming - experienced and enjoyed all genres of games, particularly games that require strategy, such as fast-paced FPS titles and games that grant me a sense of agency.

Fascinated by computer hardware, created a light sensor using a Raspberry Pi that moves a dial based on the amount of light sensed, and successfully built my computer.

Gym fanatic- consistently weight training, using a home pull-up bar daily, and casually enjoys playing badminton, basketball and tennis.

#### References

References available upon request.