AKSHAT AGRAWAL

Game Developer

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Dundee, UK

♠ Portfolio

in LinkedIn

GitHub

SUMMARY

Seeking a Game Programmer role, leveraging a recent M.Sc. in Computer Games Technology and a strong foundation in mathematics. Innovated in gamification during a stint as a Game Researcher, focusing on user engagement and well-being. Skilled in research, development, and documentation, ready to contribute to creative gaming solutions. Proficient in C++, C#, Javascript, and Python, with hands-on experience in Unity and Unreal Engine.

SKILLS

- Game engines: Unity, Unreal, and Raylib
- Programming languages: C++, C#, Python, HTML, Javascript, HLSL and GLSL(shader)
- 3D Graphics: Directx11 and OpenGL
- Physics/Math programming: Good with 2D and 3D mathematics and physics simulations.
- **3D Simulation**: Made a simulation of a tennis ball acting under the influence of drag and spin forces for my Master's project.
- Networking: Knowledge of UDP/TCP sockets, Pun Networking, Pyglet, and Pygame

PROFESSIONAL EXPERIENCE

| Game programmer Fireslug Studos Designing and implementing AI system in the upcomir | ☐ April 2024 - Present ng RPG game Ashborn. |
|---|---|
| Game research internship Uppertunity Duly 2023- Aug 2023 Conducted comprehensive research and contributed to the development of an innovative application idea, designed to enhance volunteer engagement and well-being monitoring. EDUCATION | |
| M.Sc. Computer Games Technology Abertay University, UK Thesis title: Magnus Effect in Sports | ☐ Sept 2022 - Sept 2023 |
| Integrated B.Sc. and M.Sc. Mathematics Homi Bhabha National Institute, India Thesis title: Voronoi game in graph theory | ☐ Aug 2016 - May 2021 |
| PROJECTS | |

Note: A preview of the projects is available at my portfolio website here. Procedural generation beach

• Directx11 3D beach with procedurally generated mountain and waves in the ocean

• Post-processing effects: Gaussian Blur, Swirling effect

Al for Flappy bird game

- Made a difficult version of the Flappy Bird game (pipes also move vertically) in the Unity game engine and trained the Al bot to play the game
- The average performance of AI was approximately 10 times better than the average human performance