Roaa Khaldoon

Game Programmer

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GitHub: github.com/RoaaK95 | Portfolio: roaakhaldoon.net

Summary

A game Programmer with over 4 years of experience specializing in Unity and C#. Passionate about AI programming, gameplay mechanics, and optimization. Seeking a game programmer role where I can leverage my expertise in AI programming and gameplay mechanics to contribute to innovative projects and enhance player experiences.

Technical Skills

- Game Engines: Unity Engine, Godot.
- **Programming Languages:** C#, JavaScript, Python, C++.
- Version Control: Git, GitHub.
- **Optimization and Performance:** Game optimization, performance tuning, memory management.
- **AI and Machine Learning:** FSM, A* pathfinding, steering behaviors, GOAP system, basic machine learning integration.
- **UI/UX Design:** UI design and player experience optimization in Unity.
- **Testing and Debugging:** Bug fixing, debugging tools, automated testing.
- **Game Programming:** Game mechanics, gameplay systems, game physics.

Projects

• Animal Farm

Developed a farm simulation in Unity and C# using AI steering behaviors model to imitate realistic animal movement patterns. [Link]

Dragon's Pit

Designed and programmed a playable simulation with Unity and C# using finite-state-machine model (FSM) to control the dragon's animations and behavior. [Link]

Published Game: Spooky Things

Designed, developed, tested, and released a hyper-casual game on Itch.io. Implemented intuitive controls, optimized performance, and enhanced user experience. [Link]

• Unity Developer Community Jam (UDC Jam #25)

Collaborated in a team of three to design and develop a 2D puzzle game within nine days. Programmed core mechanics and successfully published the game on Itch.io. [Link]

Professional Experience

Software Engineer

Ministry of Industry and Minerals Formations (Nov 2020 -April 2024)

- Optimized database systems, reducing query response time and improving performance.
- Troubleshot and resolved system issues, ensuring uninterrupted operations.
- Collaborated cross-functionally to implement updates, improving system stability.

Education

Bachelor of Science (BSc) in Software Engineering. University of Al-Iraqi, Baghdad, Iraq (2018).