

Unity / Unreal Game Programmer

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Portfolio (To Fine more about my projects): <https://leckchess.github.io>

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Summary

Experienced **Game Programmer** with expertise in **Unreal and Unity3D** development, specializing in creating engaging gameplay experiences across PC, mobile, and Virtual Reality (VR)/Augmented Reality (AR) platforms. Skilled in **C++ and C#**, with a strong background in developing and optimizing game mechanics, AI systems, and multiplayer features. A track record of contributing to successful game projects through effective collaboration and timely delivery, with a focus on driving innovation and enhancing player experiences. Committed to leveraging technical expertise to make impactful contributions within the gaming industry.

Core Skills

❖ Programming Languages

- C++, C#

❖ Game Engines

- Unity, Unreal Engine

❖ Gameplay Systems

- AI programming (pathfinding, behavior trees)
- Physics-based mechanics (projectile motion, interactions)
- Animation systems: blending, inverse kinematics (IK)

❖ Multiplayer Systems

- Client-server architecture, Photon networking, Unreal Gameplay Ability System (GAS)

❖ Optimization & Debugging

- Memory management, frame rate optimization
- Profiling tools: Unity Profiler, Unreal Insights

❖ Tools & Software

- Visual Studio, Rider, Git, Perforce, VPN

❖ Development Workflow

- Agile methodologies (Scrum, Kanban), Task tracking (Jira, Trello)

❖ Additional Skills

- Virtual Reality (VR)/Augmented Reality (AR) development (Oculus, ARKit), Firebase backend integration

❖ Soft Skills

- Strong communication and collaboration skills
- Creative problem-solving and debugging
- Time management and adaptability

Experience

❖ Ironbelly Studios - Unreal Game ProgrammerJan 2023 – Aug 2024

- Developed PC games in Unreal Engine using C++.
- Built and enhanced features like Queue system with Gameplay Ability System (GAS), AI plugins, and throwable systems.
- Led and mentored junior team members through onboarding and development.

❖ Toptal - Senior Game DeveloperOct 2022 – Present

- Created PC and mobile games with Unreal and Unity, utilizing C++ and C#.
- Managed technical roadmaps, collaborating with clients to ensure alignment with project goals.
- Organized tasks using Trello and Git for streamlined project delivery.

❖ P1Games - Volunteer Game Developer and Tech LeadMay 2024 – Present

- Led technical team and organized tasks for efficient project completion.
- Developed games in Unreal and Unity, ensuring timely and quality deliverables.

❖ Instinct Games - Senior Unreal Game ProgrammerApr 2021 – Jan 2023

- Engineered PC game features, integrating VFX assets, and collaborating with QA to fix bugs and enhance gameplay.

❖ BeSteam - Lead Unity Game DeveloperJun 2020 – Feb 2021

- Led a Unity-based team for timely WebGL game development.

❖ PentaValue - Senior Unity Game DeveloperNov 2019 – Mar 2023

- Created Virtual Reality (VR)/Augmented Reality (AR) mobile games using Unity3D and Unreal for multiplayer and single-player formats.

Other Roles: Senior Unity Game Developer at FunRock, and Cryptyd Game Studio, and Lead Developer at 5D-VR, as well as Project Manager at ABC-Egypt.

Key Achievements

❖ Dynamic Camera System (Unreal)

- Created a camera system responsive to gameplay events, supporting additive profiles (e.g., zoom, sprinting).
- Developed smooth transition effects between profiles for a seamless player experience.

❖ Input/Ability Queue System (Gameplay Ability System (GAS), Unreal)

- Implemented an ability management system to handle complex input conditions, prioritizing optimal ability timing.

❖ AI Attack Token System (Unreal)

- Enhanced AI responsiveness by introducing an attack token system for flexible, context-aware combat strategies.

Education

- ❖ **Liverpool John Moores University** - *Master of Business Administration (MBA)*
2024 – Present
- ❖ **Information Technology Institute** - *Game Development Diploma*
2011 – 2012
- ❖ **Ain Shams University** - *Bachelor of Computer Science*
2006 – 2010

References

❖ Nourhan Hussain (Team Lead - Ironbelly Studios)

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- (+20) 100-335-8686

❖ Ahmed El-Meshry (Team Lead - Instinct Games)

- Ahmed.elmeshry@instinctgames.com
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❖ Wael Ragaey (Project Manager - 5d-VR)

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