Alexandra Ivanova

Moscow, Russia

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Education

Moscow State University

Master of Science in Applied Mathematics and Computer Science

Sep 2019 – Jun 2021 | Moscow, Russia

GPA: 4.9/5.0

Activities: Computer Graphics Research Lab, Game Development Club, 3D Modeling Workshop Instructor

Relevant Coursework: Computer Graphics, Rendering Algorithms, Computational Geometry, Physics Simulation, Animation Systems, Game Engines, Virtual Reality, Shaders

Bachelor's Degree: B.Sc. in Applied Mathematics, Novosibirsk State University, GPA: 4.8/5.0

Work Experience

Graphics Programmer | Wargaming | Jul 2021 - Present | Moscow, Russia

- Developed advanced rendering techniques for AAA game titles played by 160M+ users worldwide.
- Implemented physically-based rendering pipeline improving visual fidelity while maintaining performance targets.
- Created custom shader systems for realistic water, atmospheric effects, and dynamic lighting.
- Optimized rendering algorithms reducing GPU usage by 35% on mid-range hardware configurations.

Skills

Graphics Programming: OpenGL, Vulkan, DirectX, Metal, WebGL, Shader Languages (GLSL, HLSL)

Rendering: Real-time Rendering, PBR, Global Illumination, Shadow Techniques, Post-processing

Mathematics: Linear Algebra, Calculus, Computational Geometry, Numerical Methods
Simulation: Physics Simulation, Particle Systems, Fluid Dynamics, Cloth Simulation
Game Engines: Unreal Engine, Unity, Custom Engine Development, Rendering Pipelines
Optimization: GPU Optimization, LOD Systems, Culling Techniques, Performance Profiling
Other: Graphics Debugging, API Abstraction, Pipeline State Objects, Multithreaded Rendering

Certificates

NVIDIA Certified Graphics Developer
Khronos Group Vulkan Developer Certification
Unreal Engine Certified Technical Artist
Computer Graphics Professional Certification

Awards

Best Technical Achievement Award – Russian Game Developers Conference 2023
Graphics Innovation Prize – Wargaming Technical Excellence 2022
Best Real-time Rendering Solution – International Computer Graphics Forum 2021