

Cover Letter

Yu-Wei Tseng

Application for Senior AI Programmer (R25952)

Dear Hiring Manager,

I am writing to express my strong interest in the **Senior AI Programmer position (R25952)** within Epic Games' Unreal Engine team. As a passionate game developer with a unique architectural design background, I am excited to contribute to the next generation of AI toolsets that empower content creators worldwide.

Technical Expertise & Unique Background

My interdisciplinary background in architecture provides a distinctive perspective on spatial reasoning and systematic design that directly translates to AI navigation systems and pathfinding algorithms. Combined with my passion for game development, this positions me to bring innovative solutions to Unreal Engine's AI framework.

Key Qualifications:

- Extensive C++ programming experience with strong software engineering principles
- Deep understanding of navigation and pathfinding systems, including **Recast** integration
- Proven track record developing robust, extensible AI systems for AAA-quality projects
- Strong knowledge of engine tooling pipelines and performance optimization

Vision for Impact at Epic

I am particularly excited about your team's work bringing AI features to the next generation of Unreal Engine, especially integration with **SceneGraph** and **Verse programming language**. My experience bridging different technological paradigms would be valuable in decoupling features from the Actor framework while maintaining performance standards.

My approach aligns with Epic's philosophy of creating user-focused solutions that enhance creativity, fostering innovation through collaboration, and maintaining quality without compromise. Your company's dedication to empowering content creators resonates with my belief that well-crafted games can drive positive change and create meaningful interactive experiences.

The opportunity to work alongside world-class talent while contributing to tools used by developers globally is incredibly motivating. I am ready to bring my technical skills, creative problem-solving approach, and passion for AI systems to help push the boundaries of real-time entertainment.

I would welcome the opportunity to discuss how my unique background and expertise can contribute to Unreal Engine's AI toolset success. I am available for an interview at your convenience and prepared to relocate to Cary for this exciting opportunity.

Thank you for considering my application. I look forward to joining the Epic team and contributing to the future of game development technology.

Sincerely,

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