

# Mark Warren

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MSc Games Computing Student and C++/Unreal Engine 5 Developer with First Class Honors in AI and Robotics. Expertise in real-time systems, Virtual Production, and VFX. Excels in C++, pipeline integration, and Agile methodologies, seeking roles in advanced rendering and systems development.

## Technical Skills

**Languages:** C++, C#, Python, JavaScript, TypeScript, HTML, CSS

**Game Engines:** Unreal Engine 5, Unity, GameMaker

**Web & Cloud:** Node.js, Angular, React, AWS, MongoDB, SQL

**Tools & Methodologies:** Git, GitHub, Docker, Jenkins, Agile (Scrum, Kanban), Blender, Autodesk Fusion, LaTeX, Adobe Photoshop

## Work Experience

**Back End Developer Intern** | Patternologie Studio | May 2025 – July 2025

- Engineered robust server-side logic in JavaScript/Node.js; optimized GUI components for full-stack performance and usability.
- Engaged in Agile ceremonies, providing technical solutions and conducting rigorous unit testing to ensure high application stability.

**Software Developer Intern** | Airbus Helicopters | Oct 2021 – June 2022

- Automated data processing by converting a Visual Basic program to a JavaScript Google Spreadsheet, achieving a 25% reduction in processing time.
- Developed embedded aircraft system tools using C++ and Python on Raspberry Pi/Ubuntu; contributed to AI obstacle detection research.

## Projects

- Coded Fray (UE5/C++):** Engineered fast-paced gameplay systems (platforming, vehicular combat, beat 'em up) in Unreal Engine 5 using C++.
- NoxPy (Python AI):** Developed a strategic computer game, implementing the Minimax algorithm for adversarial AI decision-making.
- Abyssal Heart (Unity):** Side-scroller utilizing a bioluminescence feature for dynamic light/dark scene switching and puzzle mechanics.

## Education

Staffordshire University

**MSc Games Computing** | Anticipated: August 2026

- Graphics Programming, AI, and Game Systems Engineering.

**BSc (Hons) Artificial Intelligence and Robotics** – First Class Honours | Sept 2018 – July 2024

- Awarded: Computing Department Prize for best overall performance; Star Mentor Award.

## Prior Qualifications

York College

**BTEC ND - IT Practitioners (Software Development)** - MMM | Sep 2007 - Jul 2009

## Additional Experience and Interests

**LivedX Research Participant** | Staffordshire University Pedagogic Practice | Feb 2024 to Mar 2024

- Contributed data and usability feedback to the LivedX AI platform for UK student integration

**Volunteer STEM Ambassador and Mentor** | Staffordshire University | Oct 2019 to Dec 2020

- Mentored students in the First Tech Challenge UK Robotics competition; facilitated technical workshops

Enjoys Lacrosse, Cooking, Photography, Movies, Creative Writing, Dungeons and Dragons, Board Games, Scuba Diving, Motorcycles, Art, Software Development and Robotics.