ZEN HAMAM

07305 083 572 | zenhamam56@gmail.com   **Projects** | **Linkedin** | **GitHub**

Software developer with a **BSc in Game Software Engineering** and experience in gameplay programming and **full-stack development**. Proficient in **C++, C#, Python, Unity, and Unreal Engine**, with growing skills in **JavaScript, Node.js, and APIs**. Passionate about creating interactive systems that blend creativity and solid technical design. Fluent in **English, Italian, and Arabic.**

Core Skills

- **Programming Languages: C++**, C#, Python, JavaScript, Node.js, **APIs**, OOP, **React**

- **Game Development:** Unity, Unreal Engine 5, **State Machines** (for AI and gameplay flow control), Gameplay Ability Systems. **N8n** (automation tool)

- **Web Development:** Database, **RESTful APIs**, Version Control (Git/GitHub), **TypeScript**

- **Soft Skills:** Teamwork, **Communication**, Critical Thinking, **Problem-Solving**, Time Management

Education & Projects

Founders and Coders **– Full-Stack Web Development Bootcamp (2025 – Present)**
Focused on JavaScript, Node.js, APIs, and collaborative agile development.

Bournemouth University – BSc (Hons) Game Software Engineering (2021 – 2025)
Core modules: Game Programming, AI Systems, Physics Simulations, and Software Design.

Additional Training / Online Courses (Full portfolio: zenportfolio.netlify.app):
- Unity 3D Physics & Collision (Udemy)
- Harvard CS50: Introduction to Computer Science

Arcade Game Engine (In Progress using: C++ / SDL2) GitHub Repository
- Developed a custom 2D game engine handling sprite rendering, input, and collisions.
- Implemented modular systems for reusability and performance optimization.

UE5 Multiplayer Prototype
- Built a replicated gameplay system in Unreal Engine 5 for **multiplayer functionality**.
- Designed player UI and interactions using **Blueprints and C++.**

Work History

Catering Staff – Italian Spuntino Restaurant, Heathrow (2023)
- Maintained high standards of service during peak hours.
- Demonstrated teamwork and communication under pressure.

Volunteer – Filipino Society, Bournemouth University (2022 – 2024)
- Assisted with event logistics, community engagement, and promotion.
- Strengthened cross-cultural collaboration and interpersonal skills.

Boxing Club Organizer – Bournemouth University (2023 – 2024)
- Helped coordinate training sessions and supported new members.
- Cultivated discipline, teamwork, and goal-driven commitment.