

LEONNEL HAMMEL

Software Engineer

 leonnelhml@gmail.com

 Leoleonmiel

 LinkedIn

 France

 Portfolio *(more info on my website)*

SKILLS

Soft Skills: Communication, Teamwork, Proactive, Curious, Feedback-oriented, Strong Ownership

Programming Languages: C++, C#, C, Lua, SQL, HLSL

Game Engines & Frameworks: Unreal Engine 5, Unity, SFML, SDL, Love2D, CSS

Development Tools: GitHub/Git, Visual Studio, WPF, Winforms, Fmod, WWise, Jira, TortoiseSVN

Languages: English (fluent - C1), French (fluent - C1), Classical Arabic (fluent - C1)

PROFESSIONAL EXPERIENCE

Software Engineer - Game Programming Intern - [VRAI Studio](#)

 Unity  VR/XR  Mobile  C#  Zenject

Albi, FRANCE

June 2025 – August 2025

- Developed **VR gameplay mechanics** in Unity, improving interaction quality ([Aventure du Compost](#) 
- Optimized **standalone VR performance** on PICO headsets, resulting in smoother framerates ([RecyclageVR](#) 
- Built internal **Unity tools** in C#, reducing content production time.
- Implemented a **mobile IAP system**, improving monetization flow ([BunnyKids](#) 
- Refactored architecture using **Zenject and event-driven patterns**, enabling faster feature scaling

Software Engineer Assistant / UX Programmer - [Swisscom](#)

 C++  WPF  Git  CI/CD

Lausanne, SWITZERLAND

June 2024 – August 2024

- Optimized a **C++ anomaly detection tool**, reducing memory usage from 20% to 7%.
- Implemented UX-driven features with designers, improving usability and consistency
- Reviewed and documented code, increasing maintainability and team efficiency
- Collaborated with cross-functional teams

PROJECTS

Generalist / Tool Programmer – Erebus

 Unreal Engine  C++  Gameplay  Physics

Nîmes, FRANCE

Oct 2025 – May 2026

- Developing core **gameplay and physics systems** in Unreal Engine (C++), supporting boat-based mechanics
- Implementing **navigation and water physics**, improving realism and movement stability
- Integrating **animation and gameplay systems**, ensuring cohesive and performant behavior

Gameplay Programmer - [Sunbreeze](#) , [ToonTank](#)

 Unreal Engine  C++  Gameplay  Git

Nîmes, FRANCE

3–5 Days

- Implemented core **3C gameplay systems** in Unreal Engine (C++), enabling responsive player control
- Supported rapid development through **clean gameplay architecture** and cross-functional collaboration

Engine/Tool Programmer - BitForge(Graduation Capstone Project)

 DX12  C++ 20  MASM x86_64  Qt

Nîmes, FRANCE

Oct 2025 - June 2026

- Programming in MASM x86_64 with optimized instruction handling and memory management
- Developing a C++ front-end providing structured input parsing and control of assembly execution
- Implementing rendering pipeline using DirectX 12

Online / Tool Programmer - [SUNA](#)

 C#  Unity  ECS  Netcode for Entities  Multiplayer

Nîmes, FRANCE

Jan 2025 – May 2025

- Built **server-authoritative multiplayer** in Unity ECS, enabling deterministic FPS gameplay
- Implemented **low-latency netcode** with prediction and rollback for responsive interactions
- Developed **matchmaking and debugging tools**, improving multiplayer stability

EDUCATION

Creajeux

Bachelor's Degree in Computer Science & Game Development

Nîmes, FRANCE

Sept 2021 – May 2026

Cégep du Vieux-Montréal

DEC-Sciences Humaines/Optimonde

Montreal, CANADA

Aout 2017 – Aout 2018