

Samy MENA-BOUR

C++ Gameplay & UI Programmer | Unreal Engine 5

Based in France | Willing to relocate to Scandinavia | EU Citizen | +33 6 30 88 32 32

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Summary

Game Development student specializing in Modern C++ and Unreal Engine 5. Strong focus on Technical UI development, leveraging UMG and CommonUI to create scalable, cross-platform interfaces. Passionate about bridging the gap between technical design and engine performance. Currently seeking an internship or junior position within the Scandinavian gaming industry to contribute to world-class projects.

Work experience

Dread Night, Gameplay & UI Programmer 2025-12 - 2026-01
[Game Academy, France](#)

Technical UI & Systems Development

- Architected and implemented a comprehensive game UI using UMG, prioritizing responsive design.
- Developed a dynamic data-binding system to decouple UI logic from gameplay data, improving maintainability and iteration speed.
- Optimized widget performance through Invalidation Boxes and efficient event-driven updates to minimize Slate tick overhead.
- Designed and engineered a scalable Interaction System leveraging UE5 Subsystems, providing a centralized and decoupled architecture for complex world interactions.

Logcraft, Software Engineer
[Game Academy, France](#)

2024-01 - 2024-12

- Architected an Event System based on a Subscriber/Callback pattern, enabling decoupled and thread-safe communication.
- Developed a UI Toolset featuring automated button callback registration, significantly reducing boilerplate code and integration time for designers.
- Engineered a multi-layered Scene Management system integrated with a custom Serialization module for persistent world state and efficient save/load cycles.
- Developed a Convex Shape Drawing system, providing a flexible and intuitive alternative to standard SFML primitives for defining complex collision and trigger zones.

Enter the Lost Chamber | Lead Developer & Project Manager 2024-03 - 2024-04

[Enter The Lost Chamber \(Steam\)](#)

- Project Management & Strategy: Defined technical specifications and established a high-velocity roadmap to successfully meet a 100% production-ready status within a 6-week deadline.
- Core Systems Architecture: Engineered primary gameplay systems from scratch in C++, ensuring a clean, scalable, and memory-optimized codebase tailored for Steam release.

Skills

C++ (Standard)

- Modern: C++ (17/20) | OOP | STL
- Core: Smart Pointers | Memory Management
- Design Patterns: Composite | Factory | Singleton | Observer | Command

Unreal Engine 5 (C++ | Blueprint)

- Technical UI: CommonUI | UMG
- Architecture: Subsystems | Event-Driven
- Systems: C++/BP Integration | Optimization

C# | Unity

- Advanced: DOTS | UI Toolkit
- Architecture: Component-Based | Data-driven
- Logic: ScriptableObjects | Gameplay Scripting

C

- Fundamentals: Low-level Programming
- Memory: Pointers | Manual Allocation

Project Management & Soft Skills

- Leadership: Team Management (25+ people)
- Production: Lead Dev (Steam) | Agile Roadmap
- Technical: Specifications | Roadmapping

Tools & Environment

- IDE: Visual Studio | Rider
- Version Control: Git (GitHub)
- Production: Agile (Scrum) | Trello

- **Full UI Pipeline Integration:** Architected and implemented the entire game interface, including dynamic menus and HUD, while maintaining a seamless link between UI design and engine performance.
- **Release Management:** Oversaw the technical integration and optimization process to ensure build stability and compatibility for the Steam storefront.

Professional Baker

2019-04 - 2022-07

Marie Blachère

- **Process Discipline:** Demonstrated strict adherence to complex recipes and safety protocols, maintaining a high level of precision - directly comparable to following strict C++ Coding Standards and rigorous software architectures.
- **Performance under Pressure:** Managed high-volume production cycles in a fast-paced environment, requiring flawless organization and time management.

Shift Manager

2014-01 - 2019-02

Mac Donald's

- **Team Leadership (25+ People):** Directed a large team in high-pressure environments, fostering team cohesion and ensuring peak operational efficiency during high-traffic periods.
- **Process Optimization:** Streamlined production workflows to maximize global productivity, demonstrating an analytical mindset focused on identifying and resolving systemic bottlenecks.
- **Crisis Management & Troubleshooting:** Acted as the primary point of contact for real-time problem solving, maintaining clear communication and team focus during critical peak hours.
- **Operational Rigor:** Managed inventory, complex scheduling, and training programs with high precision.

Education

Master's Degree in Game Development
Game Academy, France

2022-09 - 2026-06

Associate Degree in Web Development
3W Academy, France

2019-12 - 2020-03

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