Hamza Labib

[Portfolio](#) | [GitHub](#) | [LinkedIn](#)

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Professional Summary

Dynamic Software Developer with a background in game development. As I grew my technical expertise in game development, I realized my passion extends to software development. To further enhance my skills, I am currently focusing on backend development, performance optimization, and scalable systems. My game development experience has focused my attention to detail and user focus, ensuring high-quality solutions in collaborative environments.

Work Experience

Game Developer
Altagram Inc Group - Canada
June 2023 – Jan 2025

- **Led** the rapid prototyping of innovative game concepts, leveraging advanced Unity engine and C# skills to solve complex design challenges and validate gameplay ideas swiftly.
- **Boosted** performance by 20% through codebase optimization, identifying and refactoring bottlenecks.
- **Engineered** a dynamic content update system, using "System.IO" and Unity's "TextAsset" resources to enable seamless data integration.
- **Gained** hands-on experience in building and maintaining game systems that align with programming language concepts.
- **Developed** automated testing scripts to identify and resolve bugs, enhancing game quality.
- **Collaborated** with the localization team to ensure accurate translations and cultural relevance for 5 global markets, integrating automation tools to streamline the process.
- **Streamlined** the QA process by efficiently documenting and tracking bugs using industry-standard tracking systems, implementing automation frameworks to improve testing efficiency and accuracy.

.NET Developer
Visualhawk Solution Inc - Canada
Nov 2022 – Nov 2023

- **Developed** complex game systems and individual gameplay features using Unity engine and C#, contributing to a 20% increase in user engagement.
- **Implemented** key game systems including Character movement, Camera, and Controls, ensuring a smooth player experience.
- **Optimized** VR platform performance by 25% through debugging, profiling, and performance tuning.
- **Designed** and deployed UI elements on schedule, collaborated with the team to streamline workflows and improve deployment efficiency.
- **Participated** in an agile development team, planning and executing tasks to meet project milestones and applying troubleshooting skills to resolve critical issues.

Key Skills

- **Programming Languages:** C#, C++
- **Backend Development:** NodeJS, REST APIs, SQL, MongoDB, JSON
- **Frontend Development:** ReactJS, JavaScript, CSS
- **Software Architectures:** Top-Down, Event-Based
- **Software Design Patterns:** Factory Pattern, Strategy Pattern
- **Version Control:** Git, GitHub, Jira, Bitbucket
- **Development Practices:** OOP, SOLID principles, Unit Testing, Integrated Testing
- **Machine Learning:** TensorFlow, AI and Machine Learning (Google Cloud Certified)
- **Deployment:** WebGL, VertexAI, Spark Studio, Visual Studio, Docker
- **Soft Skills:** Problem-Solving, Team Collaboration, Communication, Self-Motivation, Flexibility to adapt to changes in plans, thrives in a flexible and creative work environment, Result oriented

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Certifications

- **Machine Learning Engineer Professional Certificate, Google Cloud**
- **Meta AR Developer Professional Certificate, Meta**

Education

Fellowship, Software Development
McGill University & Circuit Stream
Coursework: HTML/CSS, JavaScript, Front-End Development (React), Back-End Development (Node.js, Express, MongoDB), Full-Stack Integration, Algorithms & Data Structures, Deployment (Docker, CI/CD), Mobile Development (React Native), AI-Enhanced Software Development, RESTful APIs

Postgraduate Diploma: Video Games Programming
Higher Institute of Computer Science, ISI
Coursework: Game Engines, Object-Oriented Programming, Games Mathematics, Graphics Libraries, 2D/3D Tools, UI Programming, Web Programming, Artificial Intelligence

Bachelor of Engineering: Electronic and Electrical Engineering
Higher Technological Institute, HTI
Coursework: Algorithms and Data Structure, Object-Oriented Programming, Operating Systems