

CONTACT

Email:

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Portfolio:

https://chocolive24.github.io/

Linkedin:

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EDUCATION

Bachelor of Science

in Games Programming SAE-Institute Geneva Graduated: July 2025

Swiss Federal Baccalaureate

Economics and Law +
Computer Science option
Yverdon High School
Graduated: July 2022

SOFT SKILLS

- Empathic
- Rigorous
- Optimistic
- Teamwork
- Communication

HOBBIES

- Playing video games
- Going to the cinema
- Travelling
- Swimming
- Hosting birthday parties for children at the local game library in my village.

LANGUAGES

French: Native

English: Fluent-B2

Olivier Pachoud

Junior Graphics and Games Programmer

OBJECTIVE

Passionate about graphics programming, I seek to contribute to video game and interactive media projects while continuously improving my real-time rendering skills.

I aim to put my technical expertise to work within a team to create striking and immersive interactive visuals.

TECHNICAL SKILLS

Languages: C++, C, C#, Python, GLSL, HLSL

Graphics APIs: DirectX 11 & 12, DXR, CUDA, OpenGL

Game Engines: Unreal Engine 4 & 5, Unity

Tools: Git, Perforce, Cmake, Vcpkg, Docker, Emscripten

Networking: Photon Realtime, SFML Sockets

EXPERIENCE

SAE-INSTITUTE:

Ruby and The Lost Crystals: UE5 Team Game Project

Project Co-leader, Lead Game Programmer, Graphics Programmer & Tech Artist.

Developed a custom cel-shading post-process material. Engineered special visual effects: planar reflections, outline shaders, particle systems, and dynamic visual feedbacks Decided on and built the code architecture for the project.

DXR Raytracing Rendering of Dynamic and Implicit Fluid

Implemented raymarching in a custom intersection shader. Integrated Marching Cubes algorithm to generate a dynamic mesh for the DXR acceleration structure.

OpenGL 3D Scene in Deferred Shading and PBR

Programmed a 3D engine from scratch in C++/OpenGL Implemented deferred shading pipeline with PBR materials and dynamic lighting

PERSONAL WORK:

Pathtracer in CUDA

Programmed a brute-force path tracer in CUDA supporting multiple media (dielectrics, density volumes), optimized with BVH.

Mini Minecraft clone in DirectX 11

Generated a mini minecraft world procedurally with perlin noise and added a player controller with collisions