

CONTACT

⊠ Email:

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Portfolio:

https://chocolive24.github.io/

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

- Empathetic
- Rigorous
- Optimistic
- Collaborative
- Clear communicator

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

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

GPU Programming: DirectX 11 & 12, DXR, CUDA, OpenGL

Game Engines: Unreal Engine 4 & 5, Unity

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

♦ **Network programming:** 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.

Bachelor's Project: DXR Fluid Simulation Rendering

Developed a real-time fluid renderer in DXR, using both raymarching and marching cubes pipelines. Integrated the system with an SPH particle simulation.

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 materials, 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

Portfolio Highlights

Full portfolio available online here

Ruby and The Lost Crystals

Available on Steam.

A stylised puzzle-shooter game developed in team with Unreal Engine 5, where players explore ancient ruins using magical projectiles to recover scattered crystals.





OpenGL 3D Scene

A Scene made with a from scratch graphics engine including deferred rendering, PBR and IBL.

