

Marcus Cazzola

My main areas of interest are programming, especially performance optimisation and graphics. Virtual reality and AI are techniques I have used for my most fulfilling projects. I am a former elite team gymnast who has competed at national competitions.

EXPERIENCE

The GD Studio, Stockholm — Software Engineer

AUGUST 2023 - PRESENT

Working on the in-house game engine Glitch which was used in the recently released game Diabolical Rogue. I mainly worked on the level editor, graphics rendering, bug fixing and performance optimisations.

EDUCATION

The Game Assembly, Stockholm — Higher vocational education, Game programming

SEPTEMBER 2021 - APRIL 2024

I learned to make custom game engines in C++. During the education, we had 8 group projects with around 15 people per project. During the projects, I learned Cross-disciplinary communication, scrum and time management.

Stockholm Science and Innovation School, Stockholm — Upper secondary school, *Technology program*

AUGUST 2017 - JUNE 2021

I was first introduced to programming with C#, igniting my passion for coding. After school, I frequently experimented with the school's Virtual Reality (VR) headsets, creating my own prototypes in Unity. In addition, the school's 3D printers motivated me to learn how to use CAD software, such as Fusion 360.

PERSONAL PROJECTS

VR Level Editor with OpenAI voice commands — A VR program where the user can create and manipulate objects using his hands and voice.

VR Beat Saber Remake — A VR game where the player hits cubes at the beat of the music.

Using Artificial Intelligence to trade assets — A program was created to trade stocks, currencies and cryptocurrencies to earn money automatically.

Using Artificial Intelligence to create a bike frame — Fusion 360's Generative design model was used to create the optimal bike frame.

Creating a PCB for a custom mini keyboard — KiCAD was used to design the PCB.

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SKILLS

C++

Python

DirectX 11

DirectX 12

HLSL

C#

Arduino microcontroller

Fusion 360 CAD

KiCad EDA

Unity game engine

StereoKit VR game engine

OpenAI API

Pine Script

TOOLS

Perforce

Git

Scrum

Visual Studio 2022

GitHub Copilot

AWARDS

TGA, Princess Game Jam (2022), "Best graphics"

SSIS, Togethernet Hackathon (2020), "Best solution and prototype"

TATA, TCS' goIT Student Technology Program (2018), "Best presentation"

LANGUAGES

Swedish - Native

English - Fluent