



Where to find me

github.com/Helliaca



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Software development

Unity/Unreal	● ● ● ● ●
C++/.Net/C#	● ● ● ● ●
OpenGL/DirectX	● ● ● ● ●
Django / Pytorch	● ● ● ● ●
ROS	● ● ● ● ●

Work experience

12/2022 – present

VR Developer (full-time) at the Max-Planck Institute for Human Development

- Building VR development frameworks
- Advising on feasibility, technology and concepts
- Building experiments and studies with Unity, Unreal etc.

11/2021 – 12/2022

Research Assistant (part-time) at SCIOI (scienceofintelligence.de)

- Technical support
- Developing 3D foraging experiments.

10/2019 – 11/2021

VR Developer (part-time) at the Max-Planck Institute for Human Development

- Building VR development frameworks
- Building psychology experiments with Unity or as Java applications
- Building tools for visibility determination in virtual environments
- Data analysis with C#/Python

03/2017 - 06/2017

Internship, (Full Stack Developer) at Futurice, Berlin

- Web development with Django and Python
- Frontend-design and development with Javascript, HTML and CSS
- Database-management with PostgreSQL

Education

2018 – 11/2022

Master of Science, Computer Science, Free University of Berlin

- Thesis mark: 1.0 (Topic: *Hardware Acceleration of Progressive Refinement Radiosity using Nvidia RTX*)
- Preliminary mark: 1.3

2014 - 2018

Bachelor of Science, Computer Science, Free University of Berlin

- Thesis mark: 1.0 (Topic: *Real-Time Global Illumination Using OpenGL and Voxel Cone Tracing*)
- Overall mark: 2.2

2013 - 2014

Bachelor Studies, Chemistry, Free University of Berlin

- Non-organic chemistry lab traineeship
- Average mark: 3.0

2001 - 2013

High School Graduation, (Abitur, Gymnasium), German School of Madrid

- Average mark: 1.9

1999 - 2007

Weekend-Schooling, Finnish School of Madrid

Languages

German	
English*	
Spanish	
Finnish	

*: IELTS Academic certificate

Skills

Programming Languages

- Over 10 years of programming experience and in-depth knowledge in C++, C# and Java.
- Substantial experience with Python and Lua.
- Practical experience with SQL, JavaScript, HTML and CSS.
- Practical experience coding in graphics environments with GLSL, HLSL and CG/Shaderlab.

Frameworks

- Excellent knowledge of rendering-engines, particularly Unity3D.
- In-depth knowledge of computer graphics libraries such as Falcor, SFML and SDL as well as standards such as OpenGL and DirectX.
- Practical experience in web-development with Django.
- Know-how of generic robotics frameworks utilizing ROS.
- Experience with GPU-based machine learning through CUDA and pytorch

Other

- Wide and diverse skillset overarching the entire game development stack, including:
- Modelling, texturing, and simulating in Blender,
- Image and texture editing with Adobe Photoshop,
- Video-editing with Adobe Premiere
- Molecular dynamics simulations with GROMACS