

André Antonitsch

COMPUTER SCIENTIST, MSc · COMPUTER GRAPHICS

Plön, Germany

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I am a Computer Scientist with 8+ years of experience working as a programmer and R&D researcher in state-of-art projects relating to Computer Graphics, Computer Vision and AI. This taught me how to be a quick learner, adaptable and self-driven. I am passionate trying out new solutions to problems and working in a team of curious people. My main interests nowadays are Computer Graphics (mainly rendering) and Simulations.

Personal Projects & Skills (links on project titles)

Vulkan Renderer A Generic Rendering Library I wrote using C++ and Vulkan. Currently, it supports both forward and deferred rendering styles, custom shaders and custom rendergraphs for post-processing and other effects.
I am still adding features and implementing modern algorithms as i work on it.

Personal Website my contact info and links to my personal projects and experiments. I built it using Javascript (Three.js)

Languages Portuguese (native speaker), English (C1), German (B1)

Experience

Freelance

Brazil -> Plön, Germany

Nov 2021

- Relocation to Germany. (approx. 1 months)
- German Studies. Acquired B1 Certificate. (approx. 7 months)
- Tutoring Computer Graphics, Programming and Machine Learning. (approx. 2 year)
- Studied CG on Web platforms (Javascript, Threejs) (approx. 1 year)
- Studied Vulkan and modern Graphics APIs. (ongoing, approx 1.5 years.)
- Wrote my own Vulkan based Rendering Library. (ongoing, approx 1 year.)

Lenscope

Remote, (São Paulo, Brazil)

Jul 2021 - Nov 2021

COMPUTER VISION/GRAPHICS SPECIALIST

- R&D of Computer Vision and Graphics algorithms applied to the optometry business.
- Worked directly with a PhD teammate, embedded into a larger AGILE team of 7 developers and 2 managers.
- Project in Python with Keras, Pandas and Numpy.

Virtual Humans Lab (PUCRS)

Porto Alegre, Brazil

Nov 2017 - Mar 2021

RESEARCHER

- Created BioClouds, a large crowd simulation model. Resulted in 5 published papers. Made in C# using Unity3D.
- Modeled disaster situations coupling Fluid Simulation and Crowd Simulation.
Integrated Fluid Simulations written in C++, with a Unity3D based Crowd Simulation written in C#.
- Created Computer Vision tools, to analyze street camera footage, written in Python using OpenCV.

HP inc. / PUCRS

Porto Alegre, Brazil

May 2016 - Oct 2017

R&D INTERNSHIP

- Started in an AGILE team of 3 interns and 1 technical lead. Built a tool in Python to label video datasets.
- Migrated to an AGILE team of 6 members, composed of 4 interns, 1 machine learning specialist, and 1 manager.
- Implemented the Computer Vision system that integrated a video camera with gesture commands
- Both projects in C++ with OpenCV, Java and Python.

NLP Lab (PUCRS)

Porto Alegre, Brazil

Aug 2015 - Apr 2016

RESEARCH INTERNSHIP

- Participated in publishing SUMMIT++, an annotated corpus for the Portuguese language.
- Work in a team for 2 interns, 3 PhD candidates. Project in Java and Python.

Degrees

MSc, Computer Science

Porto Alegre, RS, Brazil

Mar 2019 - Mar 2021

PONTIFICAL CATHOLIC UNIVERSITY OF RIO GRANDE DO SUL (PUCRS)

- Awarded a full ride merit scholarship.

BSc, Computer Science

Porto Alegre, RS, Brazil

Dec 2018

PONTIFICAL CATHOLIC UNIVERSITY OF RIO GRANDE DO SUL (PUCRS)