

Grégoire DUPONT de DINECHIN – PhD, Engineer

R&D Engineer – Real-Time 3D Graphics for Virtual Reality

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Unity3D

C#

C++

Python

Computer graphics

Virtual reality

Languages

Native speaker

Intermediate

French

English

Spanish

Experience

R&D Engineer @ TechViz – 01/2021-Ongoing Paris, FR

I am currently working on real-time 3D for virtual reality (VR) at TechViz.

Skills: C++, Git, performance optimization, OpenGL, shaders in GLSL.

PhD @ MINES ParisTech, PSL University – 09/2017-12/2020 Paris, FR

I implemented and evaluated image-based rendering methods for bringing real-world objects into virtual reality, which I made available as open-source tools for the Unity game engine. I also reviewed and published research in international conferences, and was teaching assistant and speaker for university-level courses.

Skills: Unity game engine, C#, GPU programming with vertex/fragment and compute shaders, Python for computer vision using deep learning, research publication, view-dependent rendering from photographs, photogrammetry and 3D reconstruction.

R&D Intern @ Rakuten Institute of Technology – 03/2017-09/2017 Paris, FR

I developed and evaluated two proof-of-concept virtual reality experiences for the retail and sports industries, as an intern in the R&D section of Rakuten.

Skills: VR application development (Unity C#), collaborative code projects with Git.

Research Intern @ RWTH Aachen University – 06/2016-10/2016 Aachen, DE

I developed a virtual driving simulator and led a user study as part of research on training for semi-autonomous car driving in virtual reality.

Skills: VR application development (C++, Unity C#), UX research.

Education

PhD – Virtual reality, image-based rendering

2017-2020 @ MINES ParisTech, PSL University

Engineer's Degree – Master's Degree in Science and Executive Engineering

2014-2017 @ MINES ParisTech, PSL University (École d'Ingénieurs)

2012-2014 @ Lycée Privé Sainte-Geneviève (Prépa MPSI/MP* - maths/physics)

French General Baccalaureate – Scientific Section, British International Option (OIB)

2009-2012 @ Institut Fénélon (International section)