# Jad-Nicolas Khoury

I'm a hardworking and adaptable person, and a good team member. I'm really passionate about Rendering, VR, and Computer Graphics, and am currently looking for a 6 months internship for aug-sept 2017. Please do not hesitate to visit my website for more detailed informations!



jad-nicolas.khoury@epfl.ch

+41 78 736 96 38

1024 Ecublens

jadkhoury.github.io



www.linkedin.com/in/jadnicolaskhoury in

#### **Education**

#### Master Degree in Computer Science **EPFL**

09/2016 - Present

Lausanne, Switzerland

- Virtual Reality
- 3D Geometry Processing
- Adv. Computer Graphics
- Computer Vision

#### **Bachelor Degree in Computer Science EPFL**

09/2012 - 07/2016

Lausanne, Switzerland

- Computer Graphics
- Computer Vision
- Functional and Reactive Programming
- Software Engineering
- Adv. Theoretical C. Sc.
- Analysis I, II and III, Linear Algebra

## **High School**

Lycée Général Aux Lazaristes

09/2009 - 06/2012

Lyon, France

- Scientific Branch
- Mathematics Specialization

# Engineering Orientation

# **Experience and Projects**

#### Web Gallery for Goal-Based Caustics LGG lab - EPFL, Rayform

09/2016 - Present

- ThreeJS client side to render a 3D environment
- Implemented an OpenGL RayTracer optimised for caustics computation
- Currently working on deporting the RayTracer on an AWS instance and streaming the caustic texture to the client

## **Procedural Planet Rendering Project** Introduction to Computer Graphics - EPFL

03/2016 - 06/2016

Won Best Course Project 2016

- Implementation in C++ and OpenGL 4.x
- Features include infinite heightmap computation, distance fog, water reflection and refraction, adaptive texturing, dynamic tessellation, displacement optimisation through cycling buffers

#### **Human Perception of Guided Interaction** Immersive Interaction Group - EPFL

02/2015 - 06/2014

- Implemented an ISO 92141-9 multidirectional reaching task experiment
- Used PhaseSpace motion capture equipment and server, Oculus Rift, Unity Game Engine (4.x) and C# Scripting

# Languages, Tools and APIs

C++			
Java	• •		0
Scala	• •	0	0
MatLab	• •		
Shading Languages (OpenGL)	• •		
Swift , Objective-C, XCode	• •	$\bigcirc$	0
ThreeJS	• •		0
Git	• •		
Unity Game Engine (with C# Scripting) UNIX	• •	0	0
	• •		0

## **Group Projects**

SmartTab Android App project (09/2015 - 12/2015)

- Applied the Agile software development principles in a tight-knit group, established effective collaboration process using GIT version control
- Created the tablature open format and worked on the core functions
- Implemented in Java & Android SDK

### Languages

French English

#### Interests

Rendering | Animation | Game Engines | Fitness | Music | Nutrition | Video-Games