

# Jad-Nicolas Khoury

Currently following a M.Sc. at EPFL. I'm a hardworking and adaptable person and a good team member. I'm really passionate about 3D Rendering, VR, design and technology.



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## Education

09/2012 - 07/2016

### Bachelor Degree in Computer Science EPFL (Lausanne, Switzerland)

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

09/2009 - 06/2012

### High School, Engineering Sciences branch Lycée Général Aux Lazaristes (Lyon, France)

- Mathematics (90%)
- Physics and Chemistry (95%)
- Engineering Sciences (80%)
- French (85%)
- Philosophy (80%)

## Work Experience and Projects

09/2016 - 07/2017

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

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

03/2016 - 06/2016

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

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

02/2015 - 06/2014

### Student Research Assistant Immersive Interaction Group - EPFL

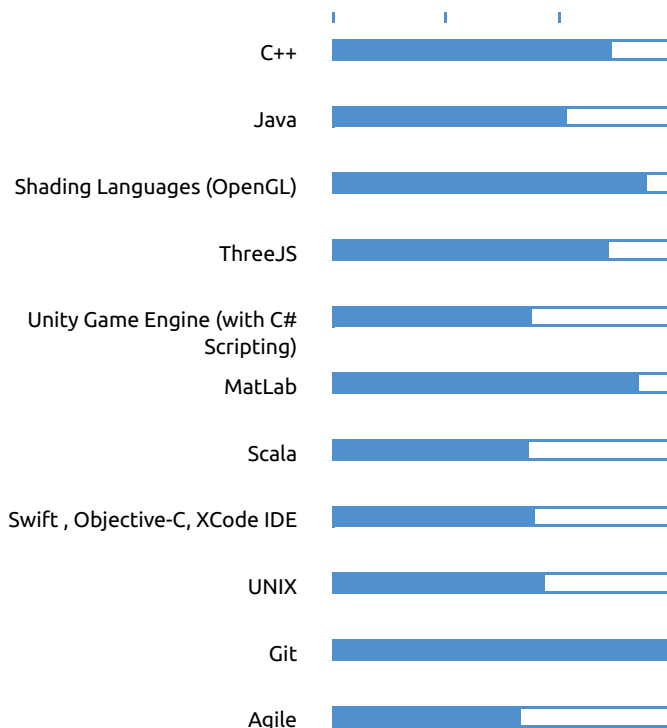
- Developed an experiment studying the subject's perception of the manipulation of its visual feedback during an ISO 92141-9 standard multidirectional reaching task.
- Used motion capture equipment, Oculus Rift, Unity Game Engine (4.x) and C# Scripting

09/2015 - 12/2015

### SmartTab Android App project Software Engineering - EPFL

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

## Languages, Tools and APIs



## Languages

French  
Native or Bilingual

English  
Expert

## Interests

Music | Fitness | Video-Games | Animation | Nutrition