FRANCOIS COULOMBE

Software Engineer & Fulltime Adventurer



WORK EXPERIENCE - 15 YEARS

Framestore	Softw
Framestore	Solly

vare Engineer

Montreal

Being part of a team specialized in Location Based Virtual Reality working with Unreal Engine 4 using both Blueprint, C++ and C#.

Developed new features and resolved multiple issues in the Virtual Production pipeline.

09/2019

Developed different gameplay mechanisms using for Location Based VR project.

Current

Profile and Optimized performances using RenderDoc.

CAE

Software Engineer

Montreal

R&D for the in house C++ OpenGL engine used within the CAE 7000XR flight simulator designed for commercial and military pilot training.

> Reducing the latency of in house AR/VR HMD by 16ms using a Timewarp/Reprojection algorithm.

03/2017 09/2019 Simulating the dust for desert helicopter training by developing a GPU particle system that is synchronized across up to 20 rendering nodes.

Emergent VR

Software Engineer

San Francisco

Helped this startup get funded for 2.2 millions and played a major role in the engineering of their Emergent software for the Oculus Gear VR.

09/2015 09/2016 Optimizing the image stabilization pipeline from 1 hour to 2 minutes by moving different computer vision algorithms to the GPU using OpenGL shaders.

Working on in house OpenCV Panorama stitching algorithm.

Google

Technical Leader

Buenos Aires

Started a new development team in Buenos Aires. We grew from 3 to 16 people over 1.5 year and took over 7 projects (C++/C#/Java/Python) that impacted millions of users.

Organizing/Planning the work for the different releases using their internal tracking software.

02/2014 09/2015 Reducing the cost of support for the line of products used to synchronize Microsoft Office with Google Apps by fixing several critical issues.

Dreamworks

Software Engineer

Los Angeles

Contributed to Academy Award winning animation software Premo used in the movies: Kung Fu Panda 2, Puss in Boots, Madagascar 3, etc.

Architecturing a C++ SDK for in house Rigging Software.

01/2011 01/2012 Improving their SCons build system with optimizations on speed by up to 40% and binary size by 10000%.

Lucasfilm

Software Engineer

Singapore

Core programmer for an engine that powered four Nintendo DS titles. (Star Wars: The Force Unleashed 2, Jedi Alliance and Republic Heroes). I helped with the shipping of The Secret of Monkey Island 1 & 2: SE.

> A Rendering pipeline for Nintendo DS, iPhone and Windows.

01/2007

➤ A Maya asset pipeline using MEL and C++ SDK.

05/2010

A silhouette normal mapping algorithm and a water shader for the Xbox 360.

EDUCATION

OANTM Bachelor's Degree of Interactive Entertainment.

Australia Games Programming Major

Intership at Auran games which turned into my first job at a games company. 2005



CREDENTIALS

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A Z LANGUAGES

- French
- > English
- > Spanish
- > C++, C#, Java, Python, Lua, etc

INTERESTS

- > AR/VR
- Snowboarding
- Trekking
- Traveling