FEDERICO SALDARINI

Computer Scientist | Software Engineer



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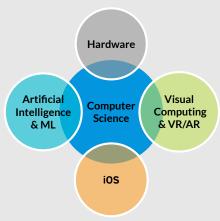
/in/federicosaldarini



saldavonschwartz

Skills-

Areas



Languages

Python • C++ • Obj-C • C# • Swift

Projects -

A Python framework for implementing dynamic neural networks.

DQN

An implementation of Deep Q-Network used in solving reinforcement learning environments in OpenAl Gym.

Digits ==

A neural network classifier trained in Python and deployed to iOS via Obj-C++ and OpenCV.

GPUKit

AC++ framework for OpenGL rendering.

VRTeleport |

A C++ plugin for virtual reality teleportation in Unreal Engine.

ABOUT

I am a Computer scientist focused on visual computing, artificial intelligence and interfacing with the physical world and enjoy projects where these converge.

EDUCATION

2018 **Audited Courses** University of California, Berkeley. Berkeley, CA.

> CS188 Artificial Intelligence CS189 Machine Learning CS184 Computer Graphics

CS194 Computational Photography

2011 **B.S. Computer Science** Portland State University. Portland, OR.

2009 **Music Synthesis** Berklee College of Music. Boston, MA.

EXPERIENCE: VR, AR, AI, GRAPHICS AND HARDWARE

Present Freelance Software Engineer and Consultant

03/17 Contract Software Engineer Piper

OpenGL, C++

R&D of OpenGL ES voxel engine for Raspberry Pi, as an alternative to

Minecraft Pi Edition.

02/17 Co-Creator / Software Engineer **RED Patterns**

Unreal Engine, Unity, HTC Vive

Winner of the Immersion Award at the 45th Festival Du Nouveau Cinéma, Canada. R&D of a room-scale VR experience featuring depth-capturing of

live actors and environments.

11/16 Contract Software Engineer **Endless Riff**

Unity, Oculus Riff, Google Cardboard

Character rigging and optimization of assets and precomputed lighting according to capabilities of desktop vs mobile VR hardware.

05/16 Contract Software Engineer Boon

Unreal Engine, Unity, Samsung GearVR, Google Cardboard

Prototyping of different VR + 360 film viewers and interactive environments for different mobile platforms.

02/16 Contract Software Engineer Magic Instruments

iOS, Bluetooth LE

Implementating a BLE protocol and music engine for iOS devices to interact with a custom electronic guitar.

08/15 Contract Software Engineer Wiggle Planet

iOS, C++, Vuforia

Auditing and bug-fixing of C++ / Vuforia code in an iOS AR application.

02/14 Full-Time Software Engineer Anki

iOS, C++, Unity, Bluetooth LE

Implementing several features of Anki Drive for iOS. R&D on interfacing Unity with custom C++ AI-planner.

OTHER IOS EXPERIENCE: FULL-TIME & CONTRACT | 2012-2017

Shyp • Shopular • Live Nation • Interview Cake • Basic Space • Learnist • Nextive

PUBLICATIONS

11/10 The Audio Programming Book

MIT Press

Waveshaping: from Csound to Cocoa. DVD: Ch. 34.