FEDERICO SALDARINI

Computer Scientist | Software Engineer



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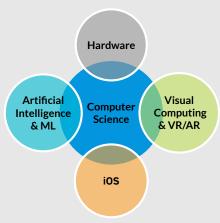
/in/federicosaldarini



saldavonschwartz

Skills -

Areas



Languages

Python • C++ • Obj-C • C# • Swift

Projects -

NNKit

A Python framework for implementing dynamic neural networks.

DQN

An implementation of Deep Q-Network used in solving reinforcement learning environments in OpenAI 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 environ-

ments 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 inter-

act 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.