Federico Saldarini

COMPUTER SCIENTIST | SOFTWARE ENGINEER

ABOUT

I'm a computer scientist based in San Francisco, CA. My areas of interest are visual computing, artificial intelligence and interfacing with the physical world and I enjoy working on projects where these converge.

EDUCATION CONTACT

2011 B.S. COMPUTER SCIENCE EMAIL

Portland State University fede.saldarini@gmail.com

2009 MUSIC SYNTHESIS WEBSITE | PERSONAL PROJECTS

Berklee College of Music www.0xfede.io

EXPERIENCE: VR, AR, GRAPHICS, HARDWARE AND RELATED

2014 - Present Freelance Software Engineer and Consultor

03/17 - 04/17 PIPER RASPBERRY PI COMPUTER KIT

Software Engineer - C++, OpenGL (Contract)

R&D on OpenGL ES voxel engines targeting Raspberry Pi as an alternative to Minecraft Pi Edition.

02/17 - 05/17 RED PATTERNS

Software Engineer - Unreal Engine, Unity, HTC Vive - (Contract)

Commissioned by SAT (Canada). Development of both Unity and Unreal Engine VR experiences based on the independent film with the same name. You can watch the trailer for the Unreal version on my website.

11/16 - 12/16 ENDLESS RIFF

Software Engineer - Unity, Oculus Rift, Cardboard (Contract)

Rigging of characters and optimization of assets and precomputed lighting.

05/16 - 01/17 BOON

Software Engineer - Unreal Engine, Unity, GearVR, Cardboard (Contract)

 $Prototyping \ of \ different \ VR+360 \ film \ viewers \ as \ well \ as \ virtual \ environments \ with \ interactive \ hotspots.$

02/16 - 11/16 MAGIC INSTRUMENTS

Software Engineer - iOS, Bluetooth LE (Contract)

Implementation of BLE connectivity and protocol for exchanging information between iOS devices and external electronic guitar, as well as musical score engine for interactive, karaoke-style, performance with said guitar.

08/15 - 09/15 WIGGLE PLANET

Software Engineer - iOS, C++, Vuforia (Contract)

Fixing viewport / transform issues in iOS when interacting with the Vuforia SDK.

02/14 - 10/14 ANKI

Software Engineer - iOS, C++, Unity (Full-time)

 $Implementing \ several \ features \ of \ Anki \ Drive \ for \ iOS. \ R\&D \ on \ interfacing \ Unity \ with \ custom \ C++AI \ planner. The \ artifacts \ of \ antifacts \ of \$

this R&D became the basis for the company's Android release and their switch to Unity.

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EXPERIENCE: VR, AR, GRAPHICS, HARDWARE AND RELATED

11/13 - 01/14 BERKLEE COLLEGE OF MUSIC

Software Engineer - Unity (Contract)

Integrating Wwise audio engine into a Unity project along with additional logic to make the project suitable for modding

by students in a game audio course offered by the college.

EXPERIENCE: MOBILE

01/17 - 02/17 MUSIC AFICIONADO

Software Engineer - iOS (Contract)

Implementing the core architecture of the iOS app, including considerable interfacing with Javascript.

12/16 - 07/17 INTERVIEW CAKE

Language Expert - Objective-C, Swift (Contract)

Establishing the style guides for both languages as well as auditing all code samples and data structure articles which

users of the website learn from on a daily basis.

03/16 - 06/16 BASIC SPACE

Software Engineer - iOS (Contract)

Auditing existing Swift codebase as well as Implementing several features of the iOS app.

07/15 - 10/15 SHYP

Software Engineer - iOS (Contract)

Implementing several features (user-facing and backend) of the User and Courrier iOS apps.

02/15 - 05/15 SHOPULAR

Software Engineer - iOS (Contract)

Implementing several user-facing, UI and backend aspects of the iOS app.

10/14 - 02/15 LIVE NATION LABS

Software Engineer - iOS (Contract)

Implementing features in the Live Nation iOS app, including an A/B testing mechanism to change certain aspects of the

app post-appstore submission.

01/13 - 02/14 LEARNIST

Lead Software Engineer - iOS (Full-time)

Leading a team of 4 engineers in architecting and implementing v2.x of the iOS app. Pre-screening and interviewing

engineer candidates to join the company.

05/12 - 12/12 GLOBANT / NEXTIVE

Software Engineer - iOS (Full-time)

Implementing features for the JP Morgan Chase and Go Wallet iOS apps.

08/11 - 05/12 MUST MOBILE

Lead Software Engineer - iOS (Full-time + Contract)

Architecting and implementing several iOS apps including a 2d animation engine for Abbot laboratories, based off

CoreAnimation.

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PUBLICATIONS

11/10 THE AUDIO PROGRAMMING BOOK

MIT Press

"Waveshaping: from Csound to Cocoa". Chapter 34 of the book's DVD.