Mark M. Cerqueira

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PROFESSIONAL

Senior Software Engineer   August 2010 – Present

Smule – San Francisco, CA

• Android development (August 2012 - present) on social music apps Sing Karaoke and Magic Piano.

• iOS development (August 2010 – August 2012) on Magic Piano, Ocarina, I Am T-Pain, and Glee.

• Led development of the first release of Sing Karaoke for Android, as well as the release of a crucial update introducing a full design re-skin of the product.

• Maximize app stability and performance following each release by utilizing performance management tools.

• Manage and maintain the Android team's shared codebase, used on three projects.

• Experienced with continuous integration and release engineering through TeamCity and Jenkins for iOS + Android.

• Assist in IT procurement, distribution, and management.

iOS Audio Workshop Instructor   July 2012 – August 2012

Stanford University | Gray Area Foundation For The Arts (GAFTA) – SF

 • Led a 5-day workshop at Stanford and a 12-hour workshop at GAFTA called "Music and Mobile Computing."

EDUCATION

Princeton University, *Princeton, NJ*   Graduated June 2010

B.S.E. with Honors in Computer Science, Certificate in Spanish and Portuguese | GPA: 3.80

Courses: Operating Systems, Networking, Digital Sound Processing, Algorithms & Data Structures, Security

SKILLS

Programming Languages: Java, Objective-C

OS and Tools: Mac OS, Linux, Windows OS, git, GitHub, IntelliJ IDEA, AppCode, Xcode, TeamCity, Jenkins

TECHNICAL PROJECTS

SoundCraft

• Developed and published a framework that enables real-time data gathering from a StarCraft 2 game, allowing for musical interpretation of the game's internal structure and strategies in novel ways. Published in the Proceedings of the New Interfaces for Musical Expression (NIME) Conference 2013.

Laptop Orchestra Network Toolkit (LOrkNeT) - Senior Thesis Research

• Developed a toolkit to evaluate networking at a hardware and topological level for live computer music performance. LOrkNeT was used to identify and help remedy issues affecting the Princeton Laptop Orchestra.

WHAT MAKES ME A UNIQUE SNOWFLAKE

• Kendo practitioner (3-kyu) with the San Francisco Kendo Dojo and Stanford Kendo Club

• Active blogger about video games, food, and technology on mark.gg

• Active Yelper: 353 reviews, 1539 photos, and counting

• Bronze league hero in StarCraft 2

• Fluent in Portuguese, conversational in Spanish