MIKAIL CAMPOS FREITAS

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OBJECTIVES To expand my knowledge, to obtain new skills and to perfect techniques. Evolution throughout the pursuit and overcoming of challenges as well as throughout contact with professionals from the same and different areas, learning and teaching in the process.

EDUCATION Bachelor of Computer Science

2008 - 2012

University of São Paulo's Institute of Mathematics and Statistics (IME - USP)

Course Completion Assignment: Solving the PSAT problem with assistance of the free software MiniSat [link (portuguese only)]

· Source code integration of free software tools to optimize one solution to a probabilistic variant of the SAT problem.

COLLEGE

First Person Walking Simulator with C++ and OpenGL

2012 (5 months)

PROJECTS

Solo Programmer

Interactive simulation with basic physics enabling the user to walk around the buildings of the USP's Institute of Mathematics and Statistics (outside only) with optional simulation for rain and fog. Made solely with C++ and OpenGL.

PERSONAL Multiplatform game with C++

2012 — present (very sparse)

PROJECTS

Solo Programmer

2D platform game with it's own physics and lightning effects egines. Multiplatform project that utilizes OpenGL, GLSL and the SFML (C++) library for input and graphics management. Currently has a version in development stage for Mac OS X.

iOS game with Swift

2015 — present (sparse)

Solo Programmer

2D platform *infinite runner* game using the SpriteKit framework from Apple for graphics and physics, with it's own engine for procedural content generation such as obstacles, background graphics and

EXPERIENCE Mobile Developer

2013 - 2014

VTX Brasil

- iOS application for IM and video calls (6 months) Implementation of the user interface and integration with the Liblinghone library for SIP (Session Initiation Protocol) based communication.
- Android application for multiple-device split video playback application (3 months) Implementation of the user interface and utilization of the AllJoyn framework for communication between the devices and management of the playback synchronization in each device using NTP (Network Time Protocol).

Head of iOS Development

2015 — present

VTX Brasil

- Product conception and direction of development
- Definition and establishment of iOS development standards, as well as a reusable code base, to ensure quality and agility of the team's code production
- iOS application for engagement in retail through innovative technologies (20 months) Application conception, architecting and development. Application conception in conjunction with the client and the design team. Implementation of the user interface, integration with our own framework for information extension in printed media, simple beacon management for integration with a system that gives salespeople access to basic informations of the stores visitors.
- iOS framework for digital extension of information in printed media Conception, architecting and implementation of the extension framework, which in turn is based on the augmented reality framework Metaio. iOS front of an ecosystem of tools that aims to integrate with the printed media production process of the clients to digitally extend it.

• iOS application for advertisement of retail deals

Application architecting, development and management of development. Implementation of the user interface and management of the implementation of the integration with our own server for accessing retail information.

SKILLS - Languages and syntaxes:

Fluent: Objective-C, C, regex

More Familiar: Swift, Python, C++, Java, Scheme, Erlang, ActionScript 3, LATEX, GLSL Less Familiar: CUDA, Assembly, Prolog, Smalltalk, Pascal, Bash

- Frameworks, libraries and technologies:

iBeacon, SFML, Allegro, NumPy, JigLib, Papervision3D, FLARManager, AllJoyn, Vuforia, OpenCV, Liblinphone, Augmented Reality

- Softwares and tools:

Git (advanced), gnuplot, Xcode, Eclipse, ADT, FlashDevelop, Sublime Text, TextMate, vim

- Intermediate knowledge of OpenGL and shaders
- Development in Ubuntu and Debian systems (4 years) and Mac OS X (5 years)
- Intermediate knowledge of cryptography
- Intermediate-advanced image editing in Adobe Photoshop
- Fluent english, basic japanese

AWARDS - Bronze medal in the Informatics Brazilian Olympics (2007)

- Silver medal in the Astronomy Brazilian Olympics (2006)
- Silver medal in the Astronomy Brazilian Olympics (2007)
- Honorable Mention in the Physics Brazilian Olympics (2007)
- Progressed to the second stage (of three) of recruitment by Microsoft in IME USP (2011)
- Progressed to the last stage of recruitment by Microsoft in IME USP (2012)