## 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 Simple 2D game with C

2010 (4 months)

PROJECTS Lead Programmer

2D game with simple physics where two players compete with each other for points for saving survivors from a shipwreck. Made with C and the Allegro multimedia library (graphics and input). [link]

Augmented reality 3D game with ActionScript 3

2010 (6 months)

Solo Programmer

Augmented reality 3D puzzle game where the player has to make a ball reach the objective going through obstacles in the virtual inside of a cube. Made with ActionScript 3 and the following libraries: JigLib for 3D physics, Papervision3D for 3D graphics, FLARManager for augmented reality. [link]

First Person Walking Simulator with C++ and OpenGL

2012 (5 months)

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. [link]

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. [link]

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 etc. [link]

**EXPERIENCE** Mobile Developer

2013 - 2014

VTX Brasil

- iOS application for IM and video calls (6 months) Development of the user interface and integration with the Liblinphone library for SIP (Session Initiation Protocol) based communication.
- $\bullet \ And roid \ application \ for \ multiple-device \ split \ video \ playback \ application$ Development of the user interface and integration with 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

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. App development and integration with our proprietary framework for information extension in printed media, as well as simple beacon management for integration with web application that gives salespeople access to basic informations of the stores visitors.
- iOS framework for digital extension of information in printed media (4 months) Conception, architecting and development 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 (4 months) Application architecting, development and management of development. App core implementation and management of implementation of the integration with our proprietary server for accessing retail information.

iOS Developer 2016

QuintoAndar

- Product architecting
- Creation of recurrent iOS discussions for the definition and establishment of standards as well as new practices in development (such as MVVM)
- iOS application for searching and visiting apartments for rent
  Application architecting and development. This app received the Best of 2016 prize from Apple.
- iOS application for managing user's apartments for rent (4 months) Application development and refactoring. Development in pursue of eliminating current technical debts as well as refactoring current codebase to ensure the best and more modern practices were being used.

Mobile Tech Lead 2017

Itaú

- · Analysis and engineering of the best solutions within Itaú's technical ecosystem
- Part of iOS discussions for best practices and part of the team responsible for guaranteeing the implementation of coding standards by other feature squads
- *iOS application for serving business users* (current) Management of iOS and Android development as well as necessary integration with Itaú's backend.

## SKILLS - Languages and syntaxes:

Fluent: Swift, Objective-C, C, regex

More Familiar: Python, C++, Java, Scheme, Erlang, ActionScript 3, IATEX, GLSL

Less Familiar: CUDA, Assembly, Prolog, Smalltalk, Pascal, Bash

- Frameworks, libraries and technologies:

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

- Softwares and tools:

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

- Architectures:

MVC, MVVM

- 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)