

Morales Mikael

GRADUATE STUDENT · COMPUTER SCIENCE

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Education

Swiss Federal Institute of Technology (EPFL)

Lausanne, Switzerland

MASTER'S DEGREE IN COMPUTER SCIENCE. SPECIALIZATION: SOFTWARE SYSTEMS. GPA: 5.17/6.0

2017 - July 2020 (expected)

Relevant courses: Advanced compiler construction, Big data, Foundations of software, Machine learning.

Swiss Federal Institute of Technology (EPFL)

Lausanne, Switzerland

BACHELOR'S DEGREE IN COMPUTER SCIENCE. GPA: 5.0/6.0

2013 - 2017

Relevant courses: Data structures, Algorithms, Database Systems, Operating Systems, Software Engineering, Compilers

Skills

Proficient

JAVA, SCALA, C

Prior Experience

PYTHON, SQL, JAVASCRIPT, HTML, CSS, L^AT_EX

Languages

ENGLISH (PROFESSIONAL WORKING PROFICIENCY)

FRENCH (NATIVE LANGUAGE)

SPANISH (NATIVE LANGUAGE)

Experience

PocketCampus Sàrl

Lausanne, Switzerland

SOFTWARE DEVELOPER

Jun. 2017 - PRESENT

Design and implementation of the Android version of the official EPFL app.

Facebook

London, United Kingdom

SOFTWARE ENGINEER INTERN

July 2018 - Oct. 2018

I worked on [Fresco](#), an Android image management library. I reduced the size of the library by two by providing an alternative implementation that did not depend on native code without losing functionalities and performance.

Teaching Assistant

Lausanne, Switzerland

SOFTWARE ENGINEERING BY PROF. GEORGE CANDEA

Sept. 2017 - Dec. 2017

I was providing technical support for students, introducing them to software engineering techniques such as SCRUM, Design Patterns, Testing, git and I was testing and reviewing their projects which consist of building an Android app.

Projects

Lisp-like language compiler and garbage collector

Switzerland

WRITTEN IN SCALA & C

Jan. 2018 - June 2018

Implementation of key parts of a compiler and a run time system for a Lisp-like programming language. The project includes the implementation of high level concepts such as closures, continuations and tail call elimination. But also the usage of intermediate representations to perform optimizations. A Mark-and-Sweep garbage collector written in C was also implemented.

Android development

Switzerland

WRITTEN IN JAVA

Jan. 2017 - June 2017

Integration of new features in the EPFL Campus app. My main focus has been on improving Moodle in the app by adding:

- Moodle Forum with all the features such as LaTeX compatibility.
- Moodle Grades, the users can see their grades and all the necessary information.
- Moodle Assignments, allowing users to see the grade they received and to check if the assignment was submitted correctly.

Picture Database

Switzerland

WRITTEN IN C & JAVASCRIPT

Feb. 2016 - June 2016

A command line utility for managing images in a database to a specific format, inspired by the one used on Facebook. It also includes a web server using libmongoose, to manage the images directly from the web interface.