

# 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 AND ENGINEERING. 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 AND ENGINEERING. 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,  $\LaTeX$

### 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.