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: 5.35/6.0 — *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 — *2014 - 2017*

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

Skills

Proficient

Java, C, Scala, Python

Prior Experience

SQL, JavaScript, MATLAB, HTML, CSS, LaTeX

Languages

English (professional working proficiency)

French (native language)

Spanish (native language)

Experience

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 or performance.

PocketCampus Sàrl — *Lausanne, Switzerland*

Software Developer — *June 2017 - June 2019*

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

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

Lancet: A self-correcting Latency Measuring Tool — *Switzerland*

Written in C & Python — *Feb. 2019 - June 2019*

I worked on Lancet, a self-correcting latency measuring tool. My work consisted in implementing agents that leverage NIC-based hardware timestamping to measure RPC end-to-end latency using exclusively the standard Linux kernel-based implementations of networking protocols to achieve precise µs-scale client-side measurements.

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 2019*

Integration of new features in the EPFL Campus app. My main focus has been on improving functionalities such as: Moodle, Maps, Public Transport, Campus card, Restauration,… to make life at EPFL easier.