Simone **D'Avico**

SOFTWARE ENGINEER · ANALYST

☐ (+39) 3491712417 | ✉ simonedavico@gmail.com | ⌂ simonedavico.github.io | ⬡ simonedavico |

☰ link | in simonedavico | 🐦 simonedavico

Education

USI(Università della Svizzera Italiana) *Sep. 2014 - Sep. 2016*

MSc in Informatics *Lugano, Switzerland*

- Graduated with a final GPA of 9.16/10, Summa Cum Laude.
- Awarded a **Mention of Honour** from the Swiss Engineering association for my Master Thesis, *"The BenchFlow Framework for Automated Performance Experiments Execution on Heterogeneous Middleware Systems"*.
- Students' representative for the academic year 2015/16

Experience

WellD Sagl *Lugano, Switzerland*

SOFTWARE ENGINEER & FULLSTACK DEVELOPER *Aug. 2016 - Today*

- Revised the stack of technologies for all front-end projects, selecting modern yet production ready frameworks and build tools.
- Designed and developed several big projects as a fullstack developer, from REST APIs in **Java/Kotlin** to reusable components with **ES6/React**.
- Contributed to improve the performance of a **microservices** based software that had to scale to handle millions of rows of data.
- Performed functional requirements analysis, architectural and technological choices for new projects.
- Developed new features on a **proprietary firmware** written in C, involving two Silicon Labs chips communicating through a proprietary protocol.

USI *Lugano, Switzerland*

STUDENT RESEARCH ASSISTANT *May 2015 - Oct. 2015*

- Primary developer of a module of the OpenSMT 2, an SMT Solver developed in **C++** by the VERIFY research group at USI.

Hugo Boss Sagl *Coldrerio, Switzerland*

INTERN SOFTWARE DEVELOPER *Feb. 2014 - Sep. 2014*

- Designed and developed internal applications for workflow automation.
- Research and application of modern front-end technologies to both new and existing projects (primarily **AngularJS**).

Skills

TECHNOLOGIES

- Knowledgeable in **JVM** based languages (Java, Scala, Kotlin, Groovy) and enterprise frameworks/specs (**Java EE**, JPA/Hibernate…). Basic knowledge of **Spring**.
- Knowledgeable in modern front-end technologies (**Html 5, EcmaScript 6, TypeScript, ReasonML**), frameworks (**React, Redux**) and build tools (**Babel, Webpack, Rollup**).
- Passionate about **functional languages** (Haskell, OCaml) and programming paradigms.

ATTITUDE

- Comfortable with working in **Open Source** environments. I am able to evaluate the quality of an open source solution and **contribute** by adding missing features when necessary.
- Comfortable with working on shared projects in a team through version control; I am especially comfortable with the **git flow** branching model, but have also worked with SVN.

Honors & Awards

2017 **Mention of Honour**, Swiss Engineering Ticino *Lugano, Switzerland*

Presentation

Lugano Tech Talks *Lugano, Switzerland*

THE BIRTH AND EVOLUTION OF A MICROSERVICES ARCHITECTURE *Mar. 2017*

- Tech talk about designing and implementing a **microservices architecture**, where we leveraged a real project we developed as a use case to introduce the most important microservices and distributed systems concepts, rules and pitfalls. The talk can be watched at `https://www.youtube.com/watch?v=wCGVnLxzwVY`