

Simone D'Avico

SOFTWARE ENGINEER · ANALYST

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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>