

Jeferson Morales Mariciano

MSc STUDENT IN COMPUTER SCIENCE · ETH ZURICH · MACHINE INTELLIGENCE · SOFTWARE ENGINEER

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Summary

Software engineer with 3+ years of experience in full stack development, currently studying Machine Learning. Seeking SDE / ML Ops internships.

Education

ETH Zurich

MASTER'S DEGREE IN COMPUTER SCIENCE, MAJOR IN ARTIFICIAL INTELLIGENCE

Zurich, Switzerland

Sep 2024 - Present

USI Università della Svizzera italiana

BACHELOR'S DEGREE IN COMPUTER SCIENCE, SUMMA CUM LAUDE

Full Tuition Scholarship. Degree taught in English. Computational Science specialization. Thesis on Data Visualization.

Lugano, Switzerland

Sep 2021 - Jun 2024

Experience

WonderIdeas

FREELANCE FULLSTACK DEVELOPER

• Build a sales tracker system for the digital transformation of a business. Structured as a 2 tier containerized platform using Django and Vuejs.

Agno, Switzerland

Jan 2024 - May 2024

USI Università della Svizzera italiana

TEACHING ASSISTANT

- Supported +150 students through lab sessions. Presentation and correction of assignment topics. 15 weekly hours during the last semester.
- Software Engineering course: project requirements, fullstack development with Spring Boot and Vue, DevOps practices and docker.
- Data Management course: relational databases, transaction query processing, SQL and NoSQL, Apache Spark for distributed data computation.

Lugano, Switzerland

Feb 2024 - Jun 2024

Claranet

CLOUD ENGINEER

- Designed cloud assessment challenges with boto3 and AWS Lambda, API Gateway, S3, IAM and Cloud9 services for an internal platform.
- Provisioning infrastructure on demand with Terraform and Cloudformation IaC tools for the assessment routines managed with Python.

Lugano, Switzerland

Sep 2023 - Dec 2023

USI Software Institute, LuCE Research Lab

UNDERGRADUATE STUDENT RESEARCHER

- Created backend with FastAPI to convert Python programs' ASTs to an expression-based notional machine retaining equivalent graph structure.
- Purpose: help +100 new 1st year students understand programming language expressions using the visualization of their abstract syntax trees.

Lugano, Switzerland

Jul 2022 - Aug 2022

Idea Soc. Coop.

SOFTWARE ENGINEER

- Blood bag logger: developed the serial communication procedure from the logger to the docking station sqlite database. Built an embedded local web app for its data visualization in Python with Flask and SQLAlchemy to display monitoring information with charts using d3.js.

Ancona, Italy

Feb 2020 - Jul 2021

Honors & Awards

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| 2024 | Student Representative , elected to represent the Faculty of Informatics in the Student Council at USI. | Lugano, CH |
| 2022 | ICPC SWERC , competitive programming contest in C++ representing USI. | Milan, IT |
| 2021 | Swiss Scholarship in Computer Science , from USI valued 24,000 CHF. Italian Informatics Olympiad in C++. | Lugano, CH |
| 2020/2021 | National Register of Excellence , Italian student graduating cum laude from Computer Science high school. | Ancona, IT |
| 2019 | 1st place , Robotics Olympiad regional phase, using Arduino and C++. | Ancona, IT |

Projects

JourneyTales (gitlab.com/usi-si-oss/teaching/projects-showcase/sa4/team-4-pufferfish)

TECH LEADER

- Coordinating a team of 12 developers to build a social media to share travel experiences. Friendship mechanisms and real time notifications using websockets. 3 tier containerized and responsive web application with OAuth2 integration (Google, GitLab) and > 99% branch test coverage. Containerized backend in Java Spring Boot and frontend in Vuejs orchestrated with docker compose.

Lugano, Switzerland

Mar 2023 - Jun 2023

Skills

Interests, find insights from Machine Learning systems, build tailored DevOps pipelines, containerization, linux.

Certifications, CCNA CISCO (2021), Comau Robots Programming (2020), ECDL AICA (2019).

Programming Languages, Strong proficiency in Python and C++, with expertise in Matlab, JavaScript and Java.

Languages, English (Proficient + Certificates), Italian, Spanish (Bilingual), French (A2 Certificate), German (Beginner).