Andrea **Vicari**

COMPUTER SCIENTIST · MASTER STUDENT IN SOFTWARE & DATA ENGINEERING

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I am a master student in Software & Data Engineering at Università della Svizzera italiana (USI) currently attending my second year and working on my Master Thesis. I am a passionate and enthusiast programmer inclined to build robust, good-quality code and I am accustomed to work in team in order to cooperate toward a common goal.

Education

USI – Universitá della Svizzera Italiana
Lugano, Switzerland

MASTER IN SOFTWARE & DATA ENGINEERING
Sep. 2017 - current

- Currently working on Master Thesis: "**Jeeves: An Interaction–Centric approach to Data Visualization**" using Java (Spring Boot) and Javascript (Vue.js)

USI – Universitá della Svizzera Italiana
Lugano, Switzerland

BACHELOR OF SCIENCE IN INFORMATICS
Sep. 2014 - Jun. 2017

- Graduated with 8.54/10 (Magna Cum Laude)
- Bachelor Project: **SMART–IVC: Enhanced Visualization of Cities Through Smart Visual Queries** using using Java (Spring Boot) and Javascript + Cesium.js.

Liceo Classico Napoleone Colajanni
Enna, Italy

HIGH SCHOOL DIPLOMA AT LICEO CLASSICO
Sep. 2009 - Jun. 2014

- Graduated with 100/100

Work Experiences and Internships

COOPAR[1]
Lugano, Switzerland

SOFTWARE DEVELOPER (FRONT–END)
Dec. 2019 - current

- Find more in the section "External Projects" under "Data Visualization Web Platform (COOPAR)"

Match Strategies[2]
Lugano, Switzerland

SOFTWARE DEVELOPER (FULL–STACK)
May. 2018 - current

- Find more in the section "External Projects under "Alpfoodway Engagement Platform(Match Strategies)" and "Scale(Up)Alps Promotional Video(Match Strategies)"
- References: Calogero Amato, Giorgia Pati

Università della Svizzera italiana & Code Lounge[3]
Lugano, Switzerland

SOFTWARE DEVELOPER (FULL–STACK)
May. 2018 - current

- Find more in the section "External Projects" under "BoardBile Data Visualization (Università della Svizzera italiana & Code Lounge)"
- References: Prof. Michele Lanza, Dr. Marco D'Ambros

Dolphin Engineering SAGL[4]
Lugano, Switzerland

SOFTWARE DEVELOPER (FULL–STACK)
Feb. 2017 - May. 2017

- Added new features to the platform (i.e., functionalities and new widgets) provided by the company: PreDivine. Using PHP and the Yii Framework.
- References: Antonio Vincenzo Taddeo and Mauro Prevostini

Dolphin Engineering SAGL[4]
Lugano, Switzerland

SOFTWARE DEVELOPER (FULL–STACK)
Sep. 2016 - Dec. 2016

- Software Atelier 5 internship during fall semester 2016
- Added new features to the platform provided by the company: PreDivine. Using PHP and the Yii Framework.
- References: Antonio Vincenzo Taddeo and Mauro Prevostini

Private Organization
Enna, Italy

EVENT ORGANIZER AND PROMOTER
Dec. 2012 - Jan. 2014

- Responsible for marketing and promotion of events
- Creator of original content (video and photo)

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[1]Coopar Official Website: https://www.coopar.ch
[2]Match Strategies Official Website: https://www.matchstrategies.com
[3]CodeLounge Official Website: https://codelounge.si.usi.ch
[4]Dolphin Engineering SAGL Official Website: https://www.dolphin-engineering.ch

External Projects

Data Visualization Web Platform
Lugano, Switzerland

COOPAR
Dec. 2018 - Current

- Creation of a web platform for analyzing and visualizing data of the cities of Ticino
- The visualization includes time-series, comparisons between cities, distribution of data among the population and possible predictions.
- Web developer using web technologies: HTML, CSS, JavaScript and the framework Vue.js

Scale(Up)Alps Promotional Video
Lugano, Switzerland

Match Strategies
Dec. 2018 - Current

- Work in progress, link not available yet
- Ongoing collaboration with the Scale(Up)Alps project for the creation of the promotional video in Motion Graphics style.

Alpfoodway Engagement Platform
Lugano, Switzerland

Match Strategies
May. 2018 - Oct.2018

- Available at: https://alpfoodway.eu
- Creation of the #AlpFoodway Engagement Platform for the AlpFoodway project
- Full Stack approach using: PostgreSQL (Database), Java and Spring Boot (Server), Javascript, Vue.js and Leaflet.js (Client)
- The platform allows the user to sign the petition and support the project. Furthermore, it automatically updates its content taking information from various datasources:
    - Upcoming events from the project website
    - News about the project from the main online newspapers
    - Posts from twitter and Facebook

BoardBile Data Visualization
Lugano, Switzerland

Università della Svizzera italiana & Code Lounge
May. 2018 - Sep.2018

- Available at: https://dev.si.usi.ch:9090/
- Creation of the BoardBile: an interactive visualization of data about food.
- It is possible to connect the smartphone to a public screen running Boardbile and traverse and/or query the data using the device screen, using gestures and movements captured by the mobile sensors.
- The application has been presented to the public during the event "Lugano Città del Gusto" - Show me the (food) data (http://www.luganocittadelgusto.ch/it/event/101/show-me-the-food-data)

University Projects

Jeeves - An interaction–centric approach to data visualization
Lugano, Switzerland

Master Thesis – Spring Semester 2019
Sep. 2018 - Current

- Work in progress, link not available yet
- Creating a web application that provides the possibility to visualize data and query it using vocal commands using Amazon Alexa and interactions through the use of a smartphone.
- Developed under the supervision of Prof. Michele Lanza and Dr. Marco D'Ambros
- Working during the second year of my master in Software & Data Engineering as a Master Thesis at Università della Svizzera italiana (USI).

Yoshi - Your Own Software History Inspector
Lugano, Switzerland

Software Analytics Project – Fall Semester 2018
Sep. 2018 - Jan. 2019

- Available at: http://software-analytics-g2.inf.usi.ch:3000/
- Created a web application that provides the possibility to mine a git repository and: analyze commits and issues, profile developers, predict possible bugs
- Developed under the supervision of Prof. Dr. Gabriele Bavota
- Work done during the Fall Semester 2018 as a Group Project of the Course Software Analytics at Università della Svizzera italiana (USI).

SMART–IVC: Enhanced Visualization of Cities Through Smart Visual Queries
Lugano, Switzerland

Bachelor Project – Spring Semester 2017
Feb. 2017 - Jun. 2017

- Available at: http://rio.inf.usi.ch:38080/
- Github repository available at: https://github.com/vicaran/Smart-IVC
- Created a web application that provides a 3D–Visualization of a City in which it is possible to interact with buildings and execute queries on the city.
- Developed under the supervision of Prof. Dr. Michele Lanza, Dr. Andrea Mocci and the REVEAL team.
- Presented to the Comune of Lugano.
- Work done during the Spring Semester 2017 as a Bachelor Project at Universitá della Svizzera italiana (USI).

Personal Skills

Programming Languages:

- **Java** (Advanced): Learnt in university courses and worked on many projects (university and personal) involving the use of frameworks like Spring Boot.
- **Python** (Advanced): Mainly applied in data wrangling and analysis projects.
- **C, PHP, MATLAB, Haskell, Scala** (Intermediate): Learnt in university and used for projects

Web Technologies:

- **HTML5, CSS3, JavaScript, JQuery** (Advanced): Learnt in university courses and worked on many projects (university and personal).

Markup Languages:

- **LaTeX, Markdown, XML, XSLT, XSD** (Advanced): Regularly used for document creation.

Version Control and Deployment:

- **Git (using GitHub and GitLab), Gitflow (Git extension), SVN** (Advanced): Regularly used for managing working repository and shared code for both personal and university group and single projects.
- **Docker** (Advanced): Regularly used for deploying my projects for both personal and university group and single projects

Frameworks & Libraries:

- **Vue.js** (Advanced): Used for building client-side of multiple project during the past years: Master Thesis, many university projects and many personal projects.
- **Spring Boot** (Advanced): Used for building server-side of multiple project during the past years: Bachelor Project, Master Thesis, many university projects and many personal projects.
- **Cesium.JS** (Advanced): Used for the Bachelor Project work. Used for creating an interactive and 3D visualisation of the city of Lugano.
- **Leaflet.JS** (Advanced): used for work projects and custom visualization on maps
- **Node.JS** (Intermediate): used for university projects during the bachelor years.
- **Echarts.js** (Intermediate): used for interactive data visualization projects during the master years and for personal projects.

Operating Systems:

- **Desktop**: MacOS (Advanced) used as main OS, Windows (Intermediate) former user, Ubuntu (Intermediate) used for many projects.
- **Mobile**: Android (Advanced) used as main OS, iOS (Intermediate) former user.

Databases:

- **SQL-based** (Advanced): worked with MySql and PostgreSQL for many projects
- **MongoDB** (Intermediate): used for storing and analyzing big data in projects of master courses.
- **Neo4J, Hadoop (including Pig, Hive and Flume), Spark** (Intermediate): worked with those technologies as part of master courses in data design and analysis.

Content Creation:

- **Keynote** (Advanced): Regularly used for project presentations. Attended design classes on how to create efficient presentations following the Zen paradigm.
- **Adobe Photoshop CC, Illustrator, XD** (Self-taught)
- **Sony Vegas Pro** (Self-taught)
- **Final Cut Pro** (Self-taught)

Personal Information

Mother Tongue:	**Italian**, native
Known Languages:	**English**, level B2 (Bachelor and Master programmes though in English)
Nationality:	Italian
Driving License:	Yes
Hobbies:	Photography and Video maker (find more at https://500px.com/andreavicari), Amateur Video and Photo Editor, Traveler, Keynote Enthusiast