Federico **Pfahler** SOFTWARE & DATA ENGINEER

Address: Via Pietro Bernasconi 21, 6883 Novazzano, Ticino, Switzerland
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Email: pfahler.federico@gmail.com
Nationality: Swiss
Date of birth: 20.09.1992

Education

Master of Science in Software and Data Engineering, GPA 9.2/10   *2018 - 2020*

UNIVERSITÀ DELLA SVIZZERA ITALIANA (USI)   *Lugano, Switzerland*

Thesis title: *"M3tricity: A 3D evolution resistant software metrics visualization"*, 9.5/10
Advisor: Prof. Michele Lanza, Co-Advisors: Dr. Roberto Minelli, Dr. Csaba Nagy.

Bachelor of Science in Informatics   *2014 - 2018*

UNIVERSITÀ DELLA SVIZZERA ITALIANA (USI)   *Lugano, Switzerland*

Bachelor project: *"A Web-based Application for Visualizing Personal Memories"*
Advisor: Prof. Marc Langheinrich, Co-Advisor: Dr. Agon Bexheti.

Work Experience

Internship - Software Developer   *2016*

MORESI.COM   *Melano, Switzerland*

I implemented a web-application for visualizing *power distribution units* consumptions and costs.

Technical Skills

- Software development
- Project planning
- Task management
- Data analysis

- Software & Database architecture
- Problem solving
- Agile techniques
- Debugging

- Security
- CI/CD
- Machine learning

Programming Languages

- Java
- Python
- Javascript
- Typescript
- C/C++
- Scala

Frameworks

- Spring
- Play
- Express.js
- Vue.js
- React.js

Databases

- MySQL
- PostgreSQL
- MongoDB
- Neo4j

Others

- Git
- Jenkins
- Docker
- SonarQube
- Maven
- Gradle
- Linux
- MacOS
- HTML/CSS

Soft Skills

I love **learning** for various reasons: it requires **curiosity**, **attention to detail**, and a good dose of **patience**. **Team working** is also part of the things I like most. For me, the team is where you **listen and exchange opinions**, **cooperate** for a greater purpose, and **coordinate** the work to be done. I also take **time management** seriously while remaining **flexible** and **willing to help** in case problems arise.

Languages

Italian	Native
English	Fluent
German	Intermediate
French	Beginner

Projects

SonicVirus   *2020*

SOFTWARE INSTITUTE   *Lugano, Switzerland*

Sonic Virus enables users to listen to the evolution of the COVID-19 outbreak around the world by means of data sonification. To implement the data sonification we leveraged the expertise of instructors at the Conservatorio della Svizzera italiana enabling us to reach a complex, rich, yet meaningful geo-localized data-driven symphony.

Mímir   *2020*

SOFTWARE INSTITUTE   *Lugano, Switzerland*

Mímir is a visual platform to explore the Swiss Federal Archives and is part of the competition published by the federal administration. It aggregates the results according to the archive plan and presents them with Voronoi treemaps.

Publications

Visualizing Evolving Software Cities   *2020*

VISSOFT IEEE   *Adelaide, Australia*

- Authors: Federico Pfahler, Roberto Minelli, Csaba Nagy, Michele Lanza
- VISSOFT is the main conference on Software Visualization and focuses on techniques that target aspects of software maintenance and evolution. With our publication, we present a novel approach to visualize software systems as evolving cities using a history-resistant layout.

Activities

2020   **Top 10: Sonic Virus**, Hackathon   *Zurich, Switzerland*
2019   **3rd Place**, USI Hackathon   *Lugano, Switzerland*

Interests

Right now, my primary interest is looking for an exciting job opportunity! But if that's not enough, you can know more about me at the next Hackathon!