

# Federico Pfahler

SOFTWARE & DATA ENGINEER

pfahlf.github.io | pfahlf | Federico Pfahler

Date of birth: 20.09.1992  
Nationality: Swiss  
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## Education

### Master of Science in Software and Data Engineering, GPA 9.2/10

Lugano, Switzerland

UNIVERSITÀ DELLA SVIZZERA ITALIANA (USI)

2018 - 2020

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

Lugano, Switzerland

UNIVERSITÀ DELLA SVIZZERA ITALIANA (USI)

2014 - 2018

Bachelor project: "A Web-based Application for Visualizing Personal Memories"

Advisor: Prof. Marc Langheinrich, Co-Advisor: Dr. Agon Bexheti.

## Work Experience

### Internship, Software Developer

Melano, Switzerland

MORESI.COM

2016

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
- Javascript
- Scala
- Python
- C/C++

### DATABASES

- MySQL
- MongoDB
- PostgreSQL
- Neo4j

### FRAMEWORKS

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

### OTHERS

- Git
- Jenkins
- Docker
- SonarQube
- Maven
- Gradle

## 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

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### SonicVirus

*Lugano, Switzerland*

SOFTWARE INSTITUTE

2020

Sonic Virus enables users to listen to the evolution of the COVID-19 outbreak around the world by means of data sonification.

### Mimir

*Lugano, Switzerland*

SOFTWARE INSTITUTE

2020

Mimir is a visual platform to explore the Swiss Federal Archives. It aggregates the results according to the archive plan and presents them with Voronoi treemaps.

## Publications

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2020 **Visualizing Evolving Software Cities**, IEEE VISSOFT

*Adelaide, Australia*

## Activities

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2020 **Top 10: Sonic Virus**, Hackathon

*Zurich, Switzerland*

2019 **3rd Place**, USI Hackathon

*Lugano, Switzerland*

## Interests

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