

Marc Jermann

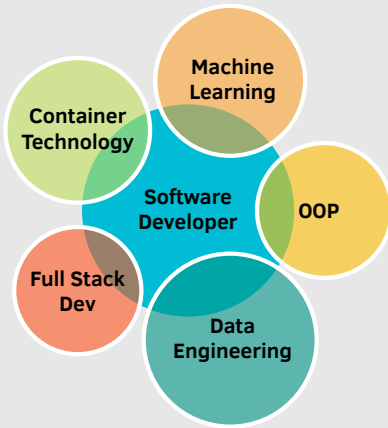
Single name: Marc Stawiski

MSc Medical Informatics

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Technical Skills

Overview



Programming & Languages

Java • Python

R • JavaScript • SQL • \LaTeX

C • HTML+CSS • React

German • English

French • Spanish

Education

MSc., Medical Informatics (ongoing)
FHNW University of Applied Sciences and Arts
2021 - 2023 | Muttenz, Switzerland

BSc., Medizininformatik
FHNW University of Applied Sciences and Arts
2018 - 2021 | Muttenz, Switzerland

Maturity
Gymnasium Kirschgarten (evening classes)
2014 - 2017 | Basel, Switzerland

Apprenticeship, Biology Research Technician
F. Hoffmann-La Roche AG
2010 - 2013 | Basel, Switzerland

Experience

08/22 - 01/23 **Master Thesis in Digital Health** Novartis
Master Thesis in Dr. Wolfgang Schleifer's team
I was responsible for the research and analysis of various software providers, as well as the development of a new data model for digital endpoints, to enhance the interoperability of digital health technologies.

01/20 - 01/21 **Tutor for computer science subjects** FHNW
Student support in University of Life Sciences FHNW
I was responsible for the tutoring program for computer science subjects, providing tutoring for my fellow students in Java, and Python.

08/14 - 07/22 **Biology Research Technician** University Hospital Basel
Diabetes research in PD Dr. Claudia Cavelti-Weder's team
I was responsible for acquiring images of stained histology slides, developing scripts for image segmentation, and quantifying regions using image analysis tools such as ImageJ, Ilastik, Python, and shell script.

Diabetes research in Prof. Dr. Marc Donath's team
I was in charge of characterizing transgenic mouse models using various assays, immunohistochemistry, and other biochemical approaches. In addition, I was responsible for obtaining supplies, breeding many lines of transgenic mice, doing laboratory upkeep, and setting up automated analysis of immunohistochemistry utilizing ImageJ, Ilastik, Python, and Shell-script.

Ocular pharmacology and physiology research in PD Dr. Albert Neutzner's team
I was in charge of the cloning, expression, and purification of experimental proteins. I was also responsible for analyzing the level of reporter protein in microscope pictures using ImageJ and R.

08/12 - 07/14 **Biology Research Technician** F. Hoffmann-La Roche AG
Preclinical research in neurodegenerative disorders in Dr. Markus Britschgi's team
I was responsible for the characterization of experimental drugs for the treatment of Parkinson's disease using immunohistochemistry, biochemical techniques, and transgenic mouse models.

Bachelor and Master theses

08/22 - 01/23 **Developing a data model for digital endpoints to improve digital health technology interoperability(master's thesis)** Novartis
• Developing a model for sensor-based device measurements to ease data integration of relevant digital endpoints in the pharmaceutical sector. Tools: Erwin Datamodeler, CDISC, FHIR

04/21 - 08/21 **Machine learning methods diagnose autoimmune diseases from molecular data (bachelor's thesis)** aiHealthLab
• Focused on developing machine learning algorithms for patient classification based on cytokine levels. Tools: Jupyter Notebook, Scikit Learn, Pandas, GitLab, KNIME

Summary

I want a career that will challenge me and assist me in growing. Through my studies, I've developed programming skills and knowledge of general and medical computer science. With over 10 years of biology research lab experience and new software development skills, I want to master my Software Engineering skills and utilize what I've learnt in fascinating projects. If my short resume grabbed your curiosity, visit marc.stawiski.ch.