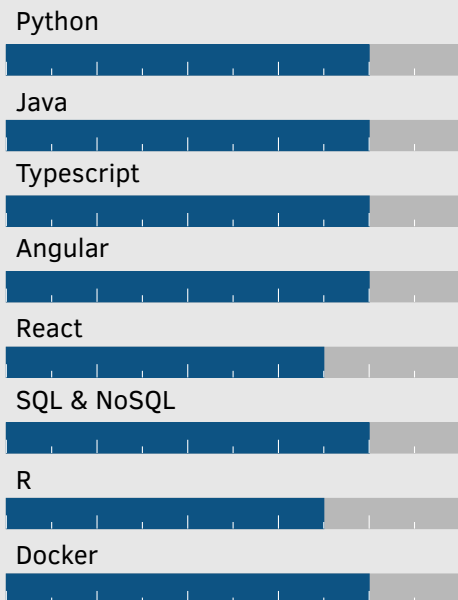# Patrick Meier

✉ Am Stausee 1, 4127 Birsfelden

@ patrick.meier@teleport.ch

🌐 www.patrickmeier.info

ℹ October 9th, 1991

Profile ———

I am a highly motivated software developer and student in Master of Medical Informatics with strong programming skills. Learning new skills suits me very well and I can put them into practice quickly. I have good communications skills and I am a great team player who focuses on the essentials. I want to use my wide practical skills and experience in data analysis and software development to find new solutions for the challenges of tomorrow.

Skill Overview ——

Python

Java

Typescript

Angular

React

SQL & NoSQL

R

Docker

Scale from 0 (Fundamental Awareness) to 5 (Expert)

Education

09.2021 - 12.2023	Master of Science FHNW in Life Sciences Specialization: Medical Informatics *University of Applied Sciences and Arts* *Northwestern Switzerland, Muttenz*	Studies

Course specialization:
Digital Transformation in Health Care
BioMedical Data Science
Medical Software Development
Digitalization of Business Processes

09.2017 - 08.2020	Bachelor of Science FHNW in Life Science Technologies Specialization: Medical Informatics *University of Applied Sciences and Arts* *Northwestern Switzerland, Muttenz*	Studies

Course specialization:
Bioinformatics and medical informatics
Telemedical systems
Imaging techniques and image processing
Intelligent systems
Statistics and data analysis
Software systems
Visual analytics

08.2011 - 06.2013	University entrance qualification Gewerblich-industrielle Berufsfachschule (GIBM), Muttenz	Matura

Scientific Experience

01.2023 - now — Health Informatics Specialist, Allschwil
Swiss Tropical and Public Health Institute

Swiss Centre for International Health | Digital Health unit
Working in an international project to develop an eCDSS solution for disease management, translating narrative care guidelines into structured components to support clinicians.

09.2020 - 12.2022 — Scientific Assistant, Muttenz
University of Applied Sciences and Arts
Northwestern Switzerland

Institute of medical technology and medical informatics IM2
Developing fullstack software solutions for the analysis of health data in international projects. Supporting the research team with bioinformatic pipelines and high-performance computing.

BSc Thesis — Personalized medical platform
Implementation of a personalized medical web platform for the diagnosis of patients with a clinical decision support system. Full-stack solution using the MEAN stack with the help of machine learning for support in diagnoses and classification of patients.

Project — Medical image application
Development of a hospital architecture for the analysis of image data from medical diagnostic images. Full-stack solution with the ability to filter results according to specific criteria or by using tags. The app was built using TypeScript, Vue.js, Node, Docker & PACS Server.
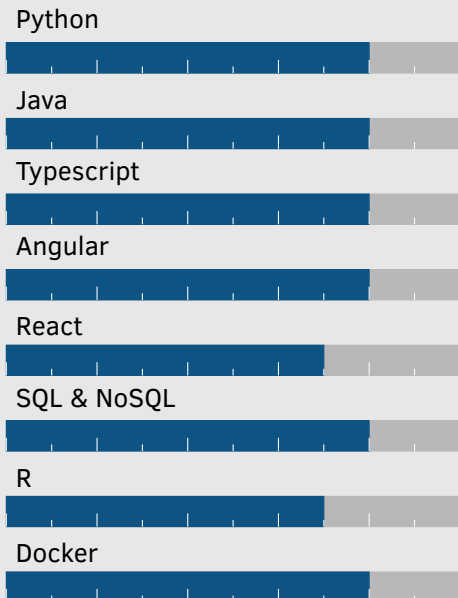
Technical Skills

Programming languages

Python	Very good knowledge
Java	Very good knowledge
TypeScript	Very good knowledge
R	Good knowledge
C#	Good knowledge

Data science

General
Very good knowledge in data wrangling, management, warehousing, and mining for valuable insights

Machine learning
Very good knowledge in classification, clustering, and neural networks utilizing Scikit Learn, TensorFlow, and Keras

Data visualization
Very good knowledge in Pandas, Matplotlib, Seaborn, Pyplot, and dashboarding tools such as Tableau

Web development

General
Very good knowledge in Linux, Bash, NPM, Maven, Docker

Backend
Very good knowledge in Node, Express, SQL, MongoDB

Frontend
Very good knowledge in Angular, React, Vue, HTML, CSS, Sass

Medical IT

CDSS
Very good knowledge in knowledge-based and non-knowledge based clinical decision support systems

Standards
Very good knowledge in Dicom, FHIR & electronic health records

Distributed systems
Good knowledge in JEE, REST, SOAP & security in the medical field

Business processes

General
Good knowledge in decision modelling and automation using BPMN, DMN, Camunda together with rule-based and predictive modelling

Processes
Good knowledge in process discovery and process mining

Image processing

General
Very good knowledge in medical image-creation & image-processing

Image-analysis & visualization
Very good knowledge in segmentation, registration, classification, feature-detection & rendering using Matlab & VTK

Bioinformatics

General
Good knowledge in protein alignment, nuecleotide annotation and searching for sequence motifs using Biopython.

Tools
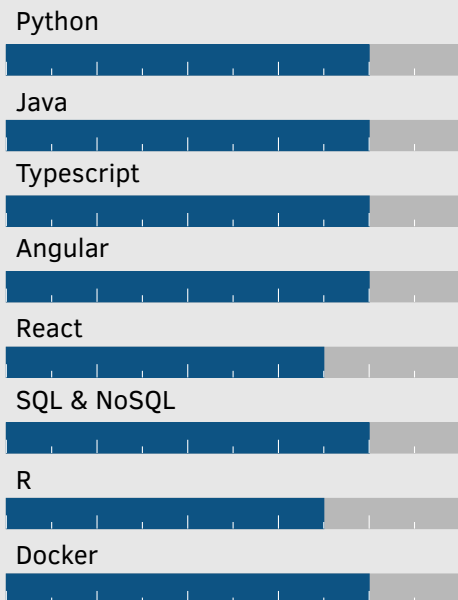Good knowledge of BLOSUM, BLAST, PSSM & HMM

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Skill Overview ——

Python

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Angular

React

SQL & NoSQL

R

Docker

Scale from 0 (Fundamental Awareness) to 5 (Expert)

Technical Experience

01.2016 - 09.2017	Multimedia electrician Kilchenmann AG, Arlesheim Installation and maintenance of professional telecommunication and multimedia systems	Multimedia
05.2012 - 12.2014	Multimedia electrician Edi Blatter AG, Basel Installation, service and sale of high-class Bang & Olufsen multimedia systems	Multimedia
08.2011 - 03.2012	Multimedia electrician Glanzmann Multimedia AG, Allschwil Installation, service and sale of consumer electronics	Multimedia

Other Experience

01.2017 - 06.2017	Civilwork Cantonal hospital, Liestal Data maintenance and archiving work Preparation of medical data for migration into a new database	Healthcare
08.2015 - 01.2016	Civilwork Day-care center, Basel Assistance and planning Accompanying kindergarden age children	Social
12.2013 - 06.2014	Civilwork Youth center "Badhuesli", Basel Facility management and supporting adolescents Providing homework assistance and being a contact person	Social

Stay abroad

01.2015 - 07.2015	Travel experience Central & South America	Travel

Languages

German	Native
English	Upper intermediate
Spanish	Intermediate

Hobbies

Climbing, camping, hiking, playing guitar