

Patrick Meier Scientific Assistant

October 9th, 1991



https://patrickmeier.info



patrick.meier@teleport.ch

Profile -

I am a highly motivated graduate in life science technologies 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 computional biology and data science to find new solutions for the health challenges of tomorrow.

Skill Overview -

Python

Biopython

Java

C#

MeanStack

Vue.js

SQL & NoSQL

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

Education

2017 - 2020 Bachelor of Science in Life Sciences | Medical IT, Muttenz

University of Applied Sciences and Arts

Northwestern Switzerland

Course specialisation:

Bioinformatics and medical informatics

Telemedical systems

Imaging techniques and image processing

Intelligent systems

Statistics and data analysis

Software systems Visual analytics

2013 - 2017 University entrance qualification, Muttenz

At GIBM

Scientific Experience

2020 - Now Scientific Assistant, Muttenz

Software Developer

Studies

Matura

University of Applied Sciences and Arts Northwestern Switzerland

aiHealthLab

Developing software applications for the analysis of health data. Supporting the research team with bioinformatic pipelines and

high-performance computing.

Thesis Personalized medial 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

hypothesis support and later classification of patients.

Project Augmented reality tracking application

Microsoft Hololens application written in C# using Unity and Vuforia for drug package recognition, which can present the associated ingredients and their corresponding molecules in 3D. Mobile solution for Android as well as iOS to enable a playful interaction of pharma-

ceutical products.

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.

Languages

German Native

English Upper intermediate Spanish Intermediate



Climbing, camping, hiking, playing guitar



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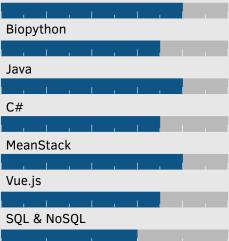
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Skill Overview —

Python

Docker



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

Technical Skills

Programming languages

Python Very good knowledge
Java Very good knowledge
TypeScript Very good knowledge
R Good knowledge
C / C++ / C# Good knowledge
SQL / NoQSL Good knowledge

Bioinformatics

General

Very good knowledge in protein alignment, nuecleotide annotation and searching for sequence motifs using Biopython.

Tools

Very good knowledge of BLOSUM, BLAST, PSSM & HMM

Data science

General

Very good knowledge in data preprocessing & data management

Machine learning

Very good knowledge in ANN, CNN, RNN, Clustering & Random Forest using Scikit Learn, Tensorflow & Keras

Data visualisation

Very good knowledge in Matplotlib, Seaborn and Pyplot

Image processing

General

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

Image-analysis & visualisation

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

Medical IT

Standards

Good knowledge in Dicom, HL7 & electronic health records

Distributed systems

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

Web development

General

Very good knowledge in NPM & Maven

Backend

Good knowledge in Node, Express, MySQL, MongoDB & Postgres

Frontend

Very good knowledge in Angular, Vue.js, HTML & CSS



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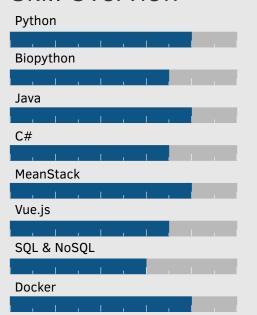


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Skill Overview -



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

Technical Experience

2016 - 2017 Kilchenmann AG, Arlesheim

Multimedia electrician

Installation and maintenance of professional telecommunication and multimedia systems

2012 - 2014 Edi Blatter AG, Basel

Multimedia electrician

Installation, service and sale of high-class Bang & Olufsen multimedia systems

2011 - 2012 Glanzmann Multimedia AG, Allschwil

Multimedia electrician

Installation, service and sale of consumer electronics

Other Experience

2017 Civilwork - Cantonal hospital, Liestal Healthcare

Data maintenance and archiving work

Preparation of medical data for migration into a new database

Multimedia

Multimedia

Multimedia

2015 - 2016 Civilwork - Day care center, Basel Social

Assistance and planning

Accompanying kindergarden age children

2015 Travel experience Travel

Central & South America

2013 - 2014 Civilwork - Youth center "Badhuesli", Basel Social

Facility management and supporting adolescents

Providing homework assistance and being a contact person