

PROFILE

- Well-versed software developer and data engineer from Germany with a PhD in bioinformatics and intensive experience working with C++ and Python in machine learning
- Accomplished alumnus of the Ludwig Maximilian University of Munich and the Max Planck Institute for Biophysical Chemistry; strong skills in mathematics and computational biology
- Enthusiastic, assertive and resilient team player, delivering innovative solutions; exceptional interest in state-of-the-art machine learning; proficient English language skills

MeierMark.github.io

Github.com/MeierMark

Linkedin.com/in/MeierMark13

PROFESSIONAL EXPERIENCE

Since 05.2018

Research Engineer for Artificial Intelligence in Robotics

Magazino GmbH, Munich (Germany)

- Project: "Multi-Robot Coordination in Warehouses"
 - Improvement of the existing single-robot system by including the positions of the other robots in path planning
 - Design of a holistic "Multi-Robot Coordination System"

09.2017 – 02.2018

Software Engineer

Sulzer GmbH, Munich (Germany)

- Project: "International Volume Planning"
 - Maintenance of Java EE projects; implementation of FUBAs
 - Customization of planning GUI; access permission adjustments for market planners; introduction to Big Data via Hadoop

01.2017 – 08.2017

Postdoc Researcher in Computational Biology

Max-Planck Institute for Biophysical Chemistry, Göttingen (Germany)

Research group of Dr. Johannes Soeding

- Project: PEnG Motif – Motif discovery tool in DNA sequences
 - Detects statistically over-represented motifs in DNA sequences
 - Written in C++, Python, R

▼ 07.2014 – 12.2016

Scientific Assistant / PhD Student

Max-Planck Institute for Biophysical Chemistry, Göttingen (Germany)

Research group of Dr. Johannes Soeding

- Project: Pdom – Protein domain predictor based on Bayesian statistics
 - Decomposes the complete protein sequence space into domains (structurally and functionally conserved building blocks)
 - Written in C++, Python
- Project: "Diversity-enriched Protein Database of Hidden Markov Models for HHblits"
 - Designed and implemented an efficient compression scheme for multiple sequence alignments
 - Boosted protein homology detection sensitivity of HHblits

07.2012 - 06.2014 Scientific Assistant, / PhD Student
Gene Center at the Ludwig Maximilians University, Munich (Germany)
Research Group of Dr. Johannes Soeding

- Project: „Coordinated the Maintenance and Improvement of HHsuite“
 - Moved the project repository from a local SVN to GitHub
 - Modernizing and optimizing legacy (spaghetti) C++ code; refactoring the build pipeline with cmake; HPC parallelization (Open MPI & OpenMP)

EDUCATION

07.2012 – 12.2016 Ludwig Maximilian University of Munich (Germany)
Degree: Doctor of Natural Sciences (Grade: 1.0)
Doctoral thesis: “Decomposing Protein Sequence Space into Domains”

04.2011 – 06.2012 Ludwig Maximilian University & Technical University of Munich (Germany)
Degree: Master of Science: Bioinformatics (Grade: 1.2)
Master thesis: “Introduction of Protein Sequence-Structure Scores in HHsearch”

10.2007 – 05.2011 Ludwig Maximilian University & Technical University of Munich (Germany)
Degree: Bachelor of Science: Bioinformatics (Grade: 2.0)

ADVANCED TRAINING & CERTIFICATIONS

Since 10.2018 Udacity – Deep Reinforcement Learning Nanodegree
03.2018 Udacity – Artificial Intelligence Nanodegree
11.2017 Udacity – Deep Learning Nanodegree Foundation
09.2017 Coursera – Applied Data Science with Python Specialization
03.2017 Coursera – Charting & Data Representation in Python by University of Michigan
12.2016 Coursera – Plotting, Introduction to Data Science in Python by University of Michigan

LANGUAGES & ADDITIONAL QUALIFICATIONS

German	Native speaker
English	Proficient knowledge
IT Skills	Expert knowledge: C++, Python, Data Science Intermediate knowledge: Machine Learning, Deep Learning, AI engineering
Awards	2 nd , 1 st and 2 nd Prize in the Federal Mathematics Competition in 2003, 2002 and 2001, Bavarian State Ministry of Education