





Johannes Kilian Langer

Software Developer

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 Munich

SUMMARY

Strong theoretical background in applied mathematics, statistics and machine learning. Extensive knowledge in software development with **10+** years of programming experience and as data scientist & scrum master with **4+** years of work experience. Focused on improving the management of real world processes with software solutions, from digitalisation to human decision making.

EXPERIENCE

Software Developer

Freelancer

 03/2022 - 10/2022

 Munich

- Digitalisation of the operational planning of hospice volunteers.
- Implementation of a full stack web app (MERN) with interactive map and database.
- User login system based on modern data security and privacy standards.
- Deployment on the local cluster with remote admin access and backup system.
- Project management done with Azure DevOps.
- Extensive contact and short feedback cycles with the client.
- Reference: Robert Milbradt[☞]; Codebase: Javascript, node.JS, React

Data Scientist & Scrum Master

Hawa Dawa GmbH

 01/2018 - 03/2022

 Munich

- Development of data processing & analysis pipelines using machine learning.
- Design and implementation of automatised alarm and issue-management systems.
- Development of applications for device monitoring and life cycle management.
- Scrum Master in an international & agile software development team.
- Automatisatation of generation and delivery of product-grade air quality reports.
- Continuous deployment with Kubernetes on Microsoft Azure.
- Customer and partner facing presentations especially for topics of high complexity.
- Active as supervisor, recruiter and networker.
- Reference: Matthew Fullerton[☞]; Codebase: R, Typescript, Python, YAML

Student Consultant

Glanos GmbH

 10/2017 - 05/2018

 Munich

- Optimisation of a text filtering business case with natural language processing.
- Extension of regular expressions using deep learning models.
- Reference: Prof. Helmut Küchenhoff[☞]; Codebase: Python

Research Intern

University of Alberta

 04/2017 - 10/2017

 Edmonton, Canada

- Behaviour prediction of fMRI data using deep learning models (mixed CNNs & LSTMs).
- Reference: Prof. Russell Greiner[☞]; Codebase: Python

EDUCATION

M.Sc. in Statistics

Ludwig-Maximilians-University Munich

 10/2014 - 05/2018

 Munich

 1.25

Master Thesis: Band Matrices in Recurrent Neural Networks for Long Memory Tasks

- Extension and integration of C/CUDA kernels into the F# framework DeepML.Net
- Implementation and benchmarking of RNNs on high-performance computing cluster
- Grade 1.0; Reference: Prof. Bernd Bischl[☞]; Publication[☞]; Codebase: C++, F#, Python

B.Sc. in Physics

Ludwig-Maximilians-University Munich

 10/2010 - 10/2013

 Munich

 1.71

Bachelor Thesis: Prebiotic Polymerization of 3',5'-Cyclic Guanosine Monophosphate

- Grade 1.3; Reference: Prof. Dieter Braun[☞]; Publication[☞]

Abitur

Illertal-Gymnasium Vöhringen








 09/2000 - 06/2009

 Vöhringen

 1.70

TECH SKILLS





Programming Languages

- Proficient:   
- Intermediate:    




















Software Development

- Web Apps:   
- Tools:   
- Practice:   









IT

- Cluster:   
- Database:   
- Office suites:  
- Clouds:  




Data Science

- Statistics:     
- ML:    
- Data:    
- Visualisation:   
- Frameworks:   

SOFT SKILLS

- Teamwork:  
- Leadership:  
- Interpersonal skills:  
- Time management: 
- Communication: 

LANGUAGES

- Native proficiency: 
- Full professional proficiency: 
- Basic proficiency: 

FURTHER ACHIEVEMENTS



ongoing

End of life companion volunteer for the Christophorus Hospiz Verein e.V.



2021

MITx Micromasters Certificate in Data, Economics and Development Policy



2018

Ambassador Academy - Development, Climate and Population of the FAW Ulm



2018

Award for best master thesis at the LMU Munich Department of Statistics



2017

Research grant for the University of Alberta Research Experience (UARE)



2006

2nd in Soccer 2vs2 at the RoboCup Junior World Championship