

Uche Mennel

Zurich



About

I am a software craftsman who enjoys working in a dynamic and interdisciplinary environment, always interested in new technologies and learning from others to improve my skills. I like to solve problems in the most consistent and elegant way. Just because it's fun. And because I believe that it pays off in the long run.

Email: umennel@gmx.ch

Work Experience

ANSYS

Senior Software Developer

01.0 - Present

As part of a team with about 10 members, I am responsible for:

- Development of a distributed asynchronous data pipeline to leverage integration of heterogeneous/legacy software modules and scalability of computing resources. The data pipeline was mainly used for post-processing (i.e. visualization) of solver output (Python, C++, Boost, Twisted, gRPC, Protocol Buffers)
- Python 3 migration and coordination with several teams across the globe
- Maintenance of ACP (ANSYS Composite PrepPost) and its integration into ANSYS Workbench (Python, C#, C++, ZeroMQ)
- Solving technical problems with customers
- Organizing team-internal technical talks
- Coordinating the development infrastructure for our team with several other development teams (Git, Linux, Artifactory, VSTS, TypeScript, TeamCity, Python, Docker)
- Screening and interviewing of job candidates

ti&m

Software Developer

Mar - Jul

Worked on various IT-projects in the banking and government sector as developer and consultant

- Development of a Windows 8 store app to administer enterprise cash equivalents (C#, XAML, MS-SQL, WCF, HTML5, JavaScript)
- Elaboration of a detail concept and technical specification for a mobile cantonal tax application

Evolutionary Engineering

Software Developer

Sep - Dec

Implementation of CAE applications involving fnite element calculations, stochastic optimization, management and visualization of large datasets (C++, Python, SQL, C#, VTK, wxPython, HDF5)

ETH Zurich

Research Assistant

Mai - Aug

- Publication and documentation of code emerged from master thesis
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Education

ETH Zurich

Computer Science, MSc

2006 - 2001

Skills

- **Programming**
 - Python
 - (modern) C++
 - C#
 - TypeScript
 - JavaScript
- **Numerical Simulation**
 - FEM
 - HPC
 - Post-Processing
- **Networking**
 - Twisted
 - Boost Asio
 - gRPC
 - Protocol Buffers
 - ZeroMQ
 - cpp-netlib
- **Tools**
 - Git
 - CMake
 - Premake
 - Azure DevOps
 - TeamCity

- VS Code
- Docker

- **Operating Systems**

- Linux
- Windows