

# Christoph Sonntag

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## Skills

<b>Data Science/Machine Learning Programming</b>	TensorFlow, Langchain, NumPy, Pandas, Jupyter, Flower, NLTK, NLP
<b>Backend and Infrastructure Languages</b>	Python, Java, Scala, PHP, TypeScript, Angular, Vue.js Docker, PostgreSQL, Azure, GCP, MongoDB, Redis English (full proficiency), German (native), French (basic)

## Work Experience

### Senior Data Science Developer

Upstream Mobility, Vienna, Austria  
Jul 2024 –

- Proactively designed and implemented AI-driven solutions, incorporating LLMs and hybrid (vector) search functionalities to improve document processing, retrieval and analysis in our RAG pipeline.
- Managed and took part in end-to-end product development, collaborating with stakeholders to define requirements, and prioritize features.
- Architecture planning and deployment of cloud infrastructure on Azure, using Terraform for IaC, optimizing costs and performance.

### Software Engineer & Developer

Freelance, Germany  
Jun 2013 – 2021

- Consultation, implementation and integration (Full-Stack Development) of customized software projects for differently sized companies
- Dashboards and low level data aggregation pipelines on-premise.

### Software Developer

dialog sued, Munich, Germany  
Jan 2016 – Oct 2020

- Full-Stack Development with Python, Django, Docker, Javascript/Typescript, jQuery, PHP.
- Full responsibility of software development on most projects.

## Education

### M.Sc. Computer Science

University of Vienna, Austria, Mar 2024

- Research on Federated Learning, NLP, Explainable and Interpretable ML, Cloud and Edge Computing and Digital Humanism
- Thesis with SBA Research, that deals with backdoor attacks on NLP models in Federated Learning, a distributed ML approach of collaboratively training a joint model on the union of multiple client datasets.

### B.Sc. Internet Computing

University of Passau, Germany, Dec 2020

- Thesis on ResNets, enabling very deep neural network architectures (implemented in Python using Tensorflow)

## Further Experience

### Mozilla Festival 2024 Wrangler, Mozilla

Feb 2024 – Jul 2024

- Assisted with planning and executing Mozilla Festival House in Amsterdam, by co-creating the program with other Wranglers, community members and Mozilla, circulating the Call for Proposals, building and supporting a community of facilitators, and curating MozFest sessions.
- Focus on Fair & Inclusive AI, including important areas such as bias, transparency, and the stewardship of data.

### Summer Institute of Computational Social Sciences, Università degli Studi di Roma "Tor Vergata"

Jun 2023

- Topics on Trustworthy AI, Research Ethics and NLP

### Elected Student Representative, University of Passau

Apr 2016 – Aug 2020

- Team Lead, managing 100 volunteers in campus-wide event with >20k revenue
- Student representation in appointment processes for new professorships ("Hardware Oriented Security" and "Algorithms for Intelligent Systems")