

Christoph Sonntag

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Career Objective

Recent computer science graduate with skills in building, training, evaluating and deploying deep learning models. Multiple years of hands-on experience consulting, building and maintaining software products in the web. Focusing on trustworthy AI with topics in Explainable and Interpretable Machine Learning, Distributed ML and Digital Humanism. Seeking to use my experience and research interests professionally.

Skills

Data Science/Machine Learning	TensorFlow, NumPy, Seaborn, Jupyter, Flower, NLTK
Programming	Python, Java, Scala, PHP, JavaScript (TypeScript, node.js, Vue.js, React)
Backend and Infrastructure	PostgreSQL, Redis, Docker, AWS EC2/S3/Sagemaker, MODBUS
Languages	English (full proficiency), German (native), French (basic)

Education

M.Sc. Computer Science - Research on Federated Learning, NLP, Explainable and Interpretable ML, Cloud and Edge Computing and Digital Humanism
[University of Vienna](#), Austria, Mar 2024

B.Sc. Internet Computing - Thesis on ResNets, enabling very deep neural network architectures (implemented in Python using Tensorflow)
[University of Passau](#), Germany, Dec 2020

Work Experience

Student Researcher - Research for my master's thesis 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
SBA Research, Vienna, Austria
Oct 2023 - Mar 2024

Lecturer - Designed and gave the course "Programmieren: Grundkurs" (4.47/5 average rating), which is still held today.
- Introduced students to programming concepts and programming with Python.
ZKK, University of Passau, Germany
Oct 2017 - Jul 2018

Software Developer - Software Development with Python, Django, Docker, Javascript/Typescript, jQuery, PHP.
- Full responsibility of software development on most projects.
[dialog sued](#), Munich, Germany
Jan 2016 - Oct 2020

Projects

MMetering, **Smart Metering App for Community Houses**, client project 2018
- Dockerized Django application for scheduling requests to connected meter and electrical charging stations using the MODBUS protocol and Redis as a message broker. Resulted in an estimated 12% reduction in electricity costs.

Clossyne, **Distributed key-value store using Akka and Scala** 2023
- Based on binary search-tress, it can be easily accessed by a Python API and makes use of the Actor model

Further Experience

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