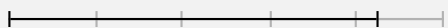# Christoph Sonntag

About me

Started a company at sixteen, working on contract-based web development and offering engineering, development as well as deployment and CI. This eventually led me to pursue a degree in Internet Computing. During my studies, my interests shifted more towards data science and deep learning, which was luckily also possible to follow up by choosing several courses offered by my university. I'm now a graduate student in Computer Science with a focus on data science topics and interested in making machine learning models used in decision making processes more explainable and interpretable.

Contact

Location	Vienna, Austria
Phone	(+49) 151 70097024
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LinkedIn	/in/christophsonntag

Skills & Tools

Python

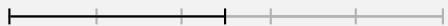**Java**

Javascript, PHP

TensorFlow, NumPy, Pandas, Matplotlib

Django/Flask/Spring Boot

Docker, Jenkins

Git, Unix

Education

University of Vienna, Austria
M.Sc. Computer Science, Major Data Science | Expected 2023

- Projects on Data Analysis (Python, Tensorflow), Parallelization, Natural Language Processing (nltk) and Visual Data Analysis (three.js, Tableau)
- Current interests include Explainable and Interpretable Machine Learning Models and the structure of Latent Spaces based on Variational Autoencoders.

University of Passau, Germany
B.Sc. Internet Computing, GPA: 2.7 (Germany 2.3) | 2020

- Dissertation on residual neural networks, enabling very deep neural network architectures (implemented in Python using Tensorflow)
- Projects on web microservices using Spring and Docker

Work Experience

Software Engineer, Full-Stack Developer
On-contract, Germany (remote, part-time) | June 2013 -

- Web Development with Python/Django, PHP, node.js, Docker and Jenkins
- Engineering and Implementation of contract-based projects

Lecturer
ZKK, University of Passau, Germany | October 2017 - July 2018

- Taught weekend courses introducing students to programming and programming with Python
- Responsible for course planning and teaching of classes (4.47 average score on a scale from 1-5, worst to best)

Programming Expertise

Smart Metering App for Community Houses, contract-based   2018
- Dockerized Django application using Redis as a message broker for scheduling requests to connected meter on a bus using the MODBUS protocol

Software Engineering and Algorithms, Lecture Courses at University
- Data Analysis & Data Mining (Python, Tensorflow, Jupyter), Functional Programming (Haskell and Scala), Advanced Software Engineering (Java, Spring, Docker), Parallel Architectures (OpenMP, OpenCL), Computer Architecture (MIPS)

Volunteer Experience

Student Council Member, University of Passau   04/2016 - 10/2020
- Supported students on administrative issues and as a mentor,
- Represented the student committee in two appointment processes for new professorships ("Hardware Oriented Security" and "Algorithms for Intelligent Systems")
- Led a team of 12 organizers managing over 100 volunteers in a campus-wide event with a revenue of more than 20K EUR

Fire Department, Active Member   09/2012 -
- Technical assistance and help after car accidents (special training).
- Special education workshop for carrying respiratory protective equipment.

Other Interests

Music, Analog Things,Visual Arts, Cinema, Politics, Design