

# Christoph Sonntag

## About me

I 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

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## Skills & Tools

### Python



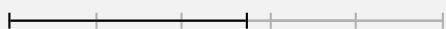
### Java



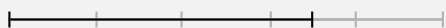
### Javascript, PHP



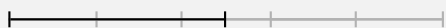
### TensorFlow, NumPy, Pandas, Matplotlib



### 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

- Weekend courses introducing students to programming with Python
- Responsible for course planning and teaching of classes (approx. fifteen people per class, 4.47 average score on a scale from 1-5, worst to best)

## Programming Expertise

**Online Smart Metering App**, 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

**Instagram Scraping and Rating Robot** 2020

- Scraping content and rating it for quality (metric learned by a ML model)

### 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

- Support students on administrative issues and as a mentor,
- Student representative on several professors appeal committees,
- Main leading role of a team of 12 organizers managing over 100 volunteers in a campus-wide event with a revenue of more than 20k Euro

**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 (listening and production, playing the guitar), Skiing, Coffee making, Hackathons, Politics, Art History, Design