# Christoph Sonntag

## About me

I started a company at sixteen, doing contract-based web development projects which 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, that are more often used in crucial decision making processes with significant societal impact, more explainable and interpretable.

## Contact

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## Skills & Tools
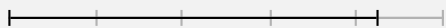
**Python**

**Java**

**JavaScript**

**C/C++**
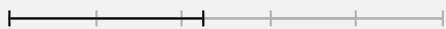
**Git**

**Unix**

**HTML/CSS/PHP**

**Vim/JetBrain IDEs**

## Education

### University of Vienna, Austria

M.Sc. Computer Science, Major Data Science | Expected 2023

Current research interests, which I am pursuing in universtiy projects at the Research Group Visualization and Data Analysis, 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: 2.3 | 2020

"Performance of Residual Networks on a Multi-Label Classification Problem", 1.7 My thesis presents a solution to vanishing gradients and the degradation problem proposed by He et. al. by introducing shortcut connections between layers and evaluates the performance on an autonomous driving dataset.

## Work Experience

### Software Engineer, Full-Stack Developer

On-contract, Germany (remote, part-time) | June 2013 -

- Communication, engineering and development of contract-based projects.
- Static and dynamic web development with PHP, node.js
- Data Mining and Warehousing, automating processes in energy billing with Python and Django (MMetering)

### Lecturer

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

- Several weekend courses for students with a non-computer-science background
- 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)

## Volunteer Experience

**Stundent 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).
- Training badge for fire fighting.
- Special education workshop for carrying respiratory protective equipment.

## Other Interests

Music (listening as well as playing the guitar or messing around with Logic Pro); Skiing; taking part in Hackathons; Politics; Clever Automations; Art History; Applied Arts and Design; coffee making

## What I'm looking for

I'm looking for exciting, challenging tasks and people that really love what they do. Although I enjoy programming and researching on specific tasks and topics, I also like taking part in a project's organization in order to grasp the big picture.