



# TOBIAS HÖLZER

Ernstthaldenstraße 49 70565 Stuttgart, Germany

+49 0179 7211 240

[tobiashoelzer@hotmail.com](mailto:tobiashoelzer@hotmail.com)

<https://tobiashoelzer-portfolio.eu-de.mybluemix.net/>

## ABOUT ME

I am Tobias Hölzer, a 21 years old, ongoing data scientist. I am focusing my work on climate change and hope to one day combine skills from different fields to help protect the world from climate disasters. I have already worked in many areas of IT and am particularly talented in the development and implementation of full-stack applications. I can follow a machine learning model through its entire life - from idea to research to production.

## EXPERIENCE

**FEB 2022 – APR 2022**

**INTERNSHIP | IBM – RESEARCH ZURICH**

In this internship I wrote my bachelor's thesis about another climate topic: flood-detection. In this work I used computer vision to find floods on remote sensing data with the overall goal to create a larger data set for research in other fields.

**AUG 2021 – NOV 2021**

**INTERNSHIP | IBM – WEATHER COMPANY**

I further focussed my work on climate in this internship with the analysis of forest-health and deforestation in Europe. I worked with Big-Data Platforms like IBM Pairs and remote sensing data from the Sentinel programme.

**JUN 2021 – AUG 2021**

**INTERNSHIP | IBM – RESEARCH UK**

At the research team in the UK, I worked on the entity-linking-problem, a subtask of natural language processing. There I developed a Python-ML Framework based on Pytorch and proposed a new model-architecture based on the BERT language model. The model is used in a project which helps scientists fight climate change.

**NOV 2020 – FEB 2021**

**INTERNSHIP | IBM – MASTER DATA MANAGEMENT**

My Tasks at the MDM developer team were the configuration of CI/CD pipelines for several projects with Docker, K8s and Travis, as well as testing the new IBM Code-Engine service.

**JUN 2020 – SEP 2020**

**INTERNSHIP | IBM WATSON CENTER MUNICH**

At the developer team at the IBM Watson Center in Munich I developed a trustful visualization for a swarm intelligence algorithm which can predict potential water leaks in a building. Within this project I also wrote a scientific paper about trustful visualizations.

JAN 2020 – MAR 2020

**INTERNSHIP | IBM DIGITAL SALES**

In my first Internship at IBM, I developed a data analytics dashboard which uses the IBM Natural Language Processing Services to extract customer needs. I also maintained other NLP Projects.

## EDUCATION

EXPECTED OCT 2022

**BACHELOR OF SCIENCE | DUALE HOCHSCHULE BADEN-WÜRTTEMBERG**

Cooperate Internship at IBM. In germany it's called 'Duales Studium'

JUN 2019

**ABITUR | HUMBOLDT GYMNASIUM BERLIN**

German Highschool Graduation – Grade: 1.4 - Points: 757 of possible 900

## QUALIFICATIONS

- Full-Stack Web-Development
- Kubernetes & Cloud-Development
- Computer Science
- Machine Learning & AI