

# LUCA WEISSBECK

Software Engineering student passionate about technology and willing to make an impact

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Stuttgart, Germany (Work authorisation provided by Settled Status in UK)

## EXPERIENCE

### Named Entity Recognition on Invoices

Software Engineering Intern: Moovster (IBM Employment)

02/2022 - Ongoing | Munich, Germany

- Enabled the automatic scanning and recognition of pre-defined entities on customer invoices using Tesseract OCR & fine-tuned Microsoft LayoutXLM transformer model on real customer data
- Provided the functionality of invoice validation in the backend using a Machine Learning pipeline

### Identifying Indicators for Bias Using NLP

Data Science Intern: IBM Research - Tech4Justice

08/2021 - 11/2021 | Hursley, United Kingdom

- Developed algorithms in Python for identifying indicators of bias in newspaper articles using data analysis tools such as Pandas, CoreNLP, NumPy, Stanford CoreNLP and IBM Cloud Watson NLP
- Demonstrated problem-solving skills by assisting the team in finding ten specific indicators of bias in newspaper articles

### Development & Serverless Deployment of GitHub Changelog Application

Software Engineering Intern: IBM Research - Code Engine

05/2021 - 08/2021 | Boeblingen, Germany

- Developed a React.js & Node.js web application for halving workload of the 93-strong Code Engine UX team by providing an efficient way to communicate the changes of the latest GitHub release via Slack
- Deployment of the web application on IBM Cloud Serverless offering "Code Engine" that also demonstrates to external clients the simplicity of Code Engine deployments

### Artificial Intelligence Optimisation for Object Recognition

Data Science Intern: IBM - IoT Center

06/2020 - 08/2020 | Munich, Germany

- Reducing eligible Hyperparameter combinations of MxNet neural network from 36 to three through Hyperparameter optimisation
- Trained MxNet neural network for object recognition inside a docker container running on a high performance computer and deployed as part of an exhibit at the Deutsches Museum in Nuremberg, Germany

## SKILLS

Python

Node.js

React.js

SQL

HTML&CSS

MySQL

Docker

## VOLUNTEERING

### IT Consulting Project

German Red Cross (GRC)

Worked with two colleagues to identify deficiencies in the GRC digital offering, such as an outdated mobile app or a website that lacked important details followed by a presentation to their board of directors

## EDUCATION

### B.Sc. International Management for Business & Information Technology

DHBW Stuttgart

09/2019 - 09/2022

- Research Project:** Hyperparameter Optimisation of an Artificial Intelligence Designed for Object Recognition and Deployed as Part of a Museum Exhibit
- Research Project:** HTTP Performance Comparison of Node.js API Deployment on IBM Cloud Code Engine versus IBM VSI

### International Abitur (A-Level equivalent)

German School London

08/2014 - 07/2019

Grade

1.9 / 1.0

## PROJECTS

### PyBroker

[github.com/LucaWeissbeck/PyStockMarketGame](https://github.com/LucaWeissbeck/PyStockMarketGame)  
Developed a gamified simulation of a financial broker in Python with Flask & Streamlit

- Grade: 100%

### SurveyWzrd

[github.com/LucaWeissbeck/SurveyWzrd-Frontend](https://github.com/LucaWeissbeck/SurveyWzrd-Frontend)  
Developed a creator for custom surveys using Java Springboot backend & React.js frontend

- Grade: 93%

### Smart Home Dashboard

[github.com/LucaWeissbeck/Toskana-Frontend](https://github.com/LucaWeissbeck/Toskana-Frontend)  
Developed a dashboard with MERN stack that displays the status of IoT devices & deployed on Kubernetes (Minikube)

- Ability to monitor holiday home remotely

## LANGUAGES

German

Native

English

Bilingual Proficiency (Level C2)

## CERTIFICATIONS

AWS Certified Cloud Practitioner

Professional Scrum Master I