

LUCA WEISSBECK

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

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Stuttgart, Germany

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 LayoutLMv2 transformer model
- 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 and created procedures for conducting expanded scope analyses

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Worked with two colleagues to identify deficiencies in the GRC digital offering, such as an outdated mobile app or a website that lacked important details followed by a presentation to their board of directors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

International

Abitur

German School London

08/2014 - 07/2019

Grade

1.9 / 1.0

PROJECTS

PyBroker

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

Developed a creator for custom surveys using Java Springboot backend & React.js frontend

- Grade: 93%

Smart Home Dashboard

github.com/LucaWeissbeck/Toskana-Frontend

Developed a dashboard with MERN stack that displays the status of IoT devices

- Ability to control and monitor the holiday home remotely

LANGUAGES

German

Native

English

Bilingual Proficiency (Level C2)

CERTIFICATIONS

AWS Certified Cloud Practitioner

Professional Scrum Master I