BERK ALI CAM

CONTACT

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Hamburg, Germany

SKILLS

- Implementation of computer vision tasks using frameworks like Pytorch, Tensorflow, and Transformers
- Implementation of deep learning techniques in image based Generative AI field
- Deployment and maintenance of ML applications using technologies like Docker and AWS
- Employment of DevOps with Github Actions
- Full-stack web development:
  - Front-end: HTML & CSS , Javascript, React
  - Back-end: PHP, MySQL, Flask
- Robot manipulation & perception with ROS

LANGUAGES

English

Turkish

German

EDUCATION

Msc. Mechatronics *2022 - 2025*
Hamburg University of Technology | Hamburg

Bsc. Mechanical Engineering *2015 - 2021*
Dokuz Eylul University | Izmir

Bsc. Mechanical Engineering *2019 - 2020*
Duisburg - Essen University | Duisburg (Erasmus Exchange Programme)

CERTIFICATES

TUHH Fishing For Experience Certificate of Participation | 2023

Student Conference of Mechatronics Certificate of Attendance | 2021

WORK EXPERIENCE

Working Student (Machine Learning Engineer)

toern | Hamburg ***Nov 2023 - Nov 2024***

- Data collection, training and deployment of a Faster Region-based Convolutional Neural Network , specialized in detecting defects on clothing items
- Collecting data by writing a web scraper with Selenium
- Training & evalution of the model using Pytorch
- Web deployment of the model using AWS technologies (Lambda, ECR)
- Designing & implementing an UI with React for the front-end
- Carrying out various AWS & React related tasks

Web Developer

WiseSoft | Izmir ***Jan 2022 - Apr 2022***

- Front & back-end software development for e-commerce website building platform,
- Providing more functionality to the UI and to it's design, mainly using vanilla HTML&CSS , Javascript and PHP.

Intern (Mechanical Engineer)

Janoschka | Izmir ***Apr 2021 - May 2021***

- Learning about the manufacturing processes of printing cylinders
- Learning about the details of how a CNC machine works
- Learning about the problems encountered during manufacturing and how to solve them

PROJECTS

TUHH Fishing for Experience Programme - toern | 2023

- Classifying clothing items based on their condition (clean, dirty etc.) via machine learning
- Building a convolutional neural network from scratch using TensorFlow & Keras for an image classification task
- Deployment of the model to the web using TensorFlow.js library

Project Work - TUHH | 2024

- Mapping music into a physical painting based on the mood of the input music
- Training of a Conditional Generative Adversarial Network (CGAN) model using PyTorch, detecting the mood the of the music using Essentia.js library, and lastly preparing digital paintings for robotic drawing by mapping them into 2D points
- Developing a web application using React for the front end and Flask for the back end

Project Work - TUHH | 2024

- Integrating sonars & thrusters to an underwater robot on the software side, with ROS framework
- Writing a simple algorithm for autonomous manipulation of the robot