

Python, C++, SQL, R, Javascript PyTorch, Tensorflow, Spacy, SciPy CI/CD, K8S, AWS, Docker, Linux

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# **Professional Experience**

**Apple** Cork. Ireland

Graduate Software Engineer – Data Science Team

Oct 2022 – present

• Collaborating with Software Engineers and business stakeholders to build full stack,

MLOps data products for Apple's supply chain business

- · Developing anomaly detection, time series forecasting and NLP tools for internal business stakeholders
- · Conducting frequent meetings with internal business stakeholders to identify new AI opportunities for Apple's supply chain

Technologies: Python, DataRobot, Streamlit, K8S, Docker, CI/CD, Snowflake, Teradata, S3, Keynote

Udacity Remote, Germany Data Science Career Coach for the "Bosch Al Talent Scholarship Program" Jul 2022 - Nov 2022

- · Conducted weekly webinars to deliver careers and initial freelancing experience to Udacity learners
- Reviewed over 50 data science PhD/Master students' resumes and cover letters and provided feedback
- · Helped students to identify their personal interests and career goals to land a data science job at Bosch Technologies: Powerpoint, Python, Zoom

#### Machine Learning and Data Analytics Lab @FAU

Erlangen, Germany

Student Assistant for the courses: Machine Learning for Engineers 1 & 2

May 2022 - Aug 2022

- Answered Machine Learning related questions from students in the course forum
- · Took part in course management, formulated exam questions and partly corrected the exam Technologies: Python, E-Learning Platform, PowerPoint, Kdenlive

**Amazon** Munich, Germany Feb 2021 - Aug 2021

Business Intelligence Intern - Transportation Planning Team

- Translated SQL scripts for prediction into Python-based Machine Learning pipelines
- Built a multiple regression model to predict upcoming number of sales for sales contracts
- · Optimized data retrieval SQL scripts from the Redshift cluster by reducing the complexity
- Minimized SQL script lengths by >50% to improve the readiness and computation time Technologies: Python, SQL, Pandas, Machine Learning, AWS, Redshift

Siemens AG Erlangen, Germany Machine Learning Engineer Working Student - IDE Development Team Mar 2020 - Feb 2021

- Built and deployed a XGBoost model with error log tickets from customer data
- Enabled our 130 software engineers a ~30% faster ticket fixing pipeline with the prediction model Technologies: Python, XGBoost, Scikit-Learn, Flask, HTML, Bootstrap

Rehau AG Erlangen, Germany

Software Engineering Working Student - Digital Innovations Team

Apr 2019 - Aug 2019

- Built an automated Java-Applet to scrape data from IoT home devices used by our SE team
- · Used Kali Linux to identify potential data leakages between the IoT-Devices and Wi-Fi routers Technologies: Java, Java Spring, Kali Linux, Wireshark

Tokyostay Ltd. Tokyo, Japan

Full Stack Developer Intern - Growth Team

Aug 2018 - Mar 2019

- · Implemented an availability feature on the master branch of the Wordpress website
- Experimented to translate the Wordpress website of the companies' bar into a ReactJS website Technologies: Wordpress, PHP, HTML, CSS, ReactJS, NodeJS, Javascript

## **Education**

## Friedrich Alexander University of Erlangen-Nuremberg (FAU) **Master of Computer Science**

Erlangen, Germany Apr 2020 - July 2022

- · Major: Artificial Intelligence and Machine Learning, Minor: Al in Medicine
- · Courses: Deep Learning, Pattern Analysis, Machine Learning for Timeseries, Mathematical Data Science
- Thesis: AI Trend Detection in Healthcare by applying Topic Clustering and Sentiment Analysis using Podcast Data

## **City University of Hong Kong Exchange Semester**

Hong Kong Aug 2019 - Jan 2020

· Courses: Machine Learning, Data Engineering and Machine Learning for Business

## Nuremberg Institute of Technology Georg Simon Ohm **Bachelor of Computer Science and Management**

Nuremberg, Germany Oct 2016 - Apr 2020

- · Major: Machine Learning, Minor: Database Systems
- · Courses: Machine Learning, Data Engineering and Learning Systems, NoSQL Database Systems
- Thesis: IT-based Automatic Text Summarization with the use of Textgeneration Methods

# **Projects**

**Master Project** Nov 2020 - Nov 2021

Style Classification in Posters

- Scraped 20GB wikiart.org images with labels and received 15GB unlabeled posters from a local museum
- Implemented transfer learning with an Efficient Net in PyTorch to classify the posters' style genre

**Master Seminar** Apr 2020 - Aug 2020

Identify a Trial Population for Clinical Studies on Diabetes Drug Testing

- · Conducted an end-to-end clinical deep learning pipeline to predict explainable (XAI) diabetes hospitality rates
- My project was rewarded with the **best student paper award** by the German Informatics Society (SKILL 2021)

## **Extracurricular Activities**

#### **Summer School: University of Oxford**

Oxford, UK July 2023

- · Accepted as one of few on-site participants for the OxML NLP / Finance summer school
- · Courses: Quantum finance & NLP, Computational linguistics, Multi-lingual NLP and many more

#### Summer School: Universidad Politécnica de Madrid

Madrid, Spain

· Selected as one of three scholarship recipients among all applicants from my university

· Course: Al Ethics, Won the first prize with our project: Medical Al Diagnosis of Breast Cancer

June 2022

#### FAU - Digital Tech Academy

- Selected as one of 20 exclusive participants among >150 applicants from my university
- Elite entrepreneurial and tech talents program at the University of Erlangen-Nuremberg

Erlangen, Germany Apr 2022 – July 2022

#### Seasonal School: Sant'Anna School of Advanced Studies

- Selected as one of two scholarship recipients among >30 applicants from my university
- · Course: Innovations management and the common good, 28/30 points achieved

Pisa, Italy Feb 2022 - Mar 2022

#### Hackathon: Huawei Seeds for the Future 2021

Vienna, Austria

• First place at the "Tech4Good" hackathon hosted by Huawei with our vegetable app idea

· Selected as one of eight handpicked participants to gain exclusive insights into Huawei

Nov 2021

Online

#### The Power MBA

Oct 2020 - Oct 2021

• Startup focused online MBA with many case studies and accredited teachers

· Courses: Business Model Innovation, Lean Startup, Business and Marketing Strategies

#### Hackathon: Beiersdorf Oscar & Paul

Online

• Second place of the 4-week Hackathon: The Future of Skincare with 27 international teams

Sep 2020

• Participated as data scientist together with R&D scientists, business gurus and designers in my team

### **Udacity Nanodegrees**

Online

· Data Scientist, Natural Language Processing and Data Science for Business Leaders

**Coursera Courses** 

Online

• Deep Learning Specialization, AI for Medicine, Build GAN's

# **Leadership & Rewards**

#### **Freshman Mentor Program**

Nuremberg, Germany Nov 2020 – Mar 2021

Voluntary support, meetings and helping a group of computer science freshmen

Nov 2021 – Nov 2022

#### **Germany Scholarship**

· Rewarded for my performance and GPA (3.7) during my master's degree

#### **Towards Data Science Associate Writer**

Mar 2020 - Present

• Frequently writing articles for *Towards Data Science* about Data Science related topics

# Languages & Hobbies

- · Languages: German (native), English (fluent), Chinese ~ Mandarin (intermediate), Japanese (intermediate)
- · Hobbies: Bouldering, Piano, Cooking, Reading books, Golf