# Katharina Sternbauer

# Student, Data Scientist

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# **Professional Experience**



### Data Analyst @Primetals Technologies

🛮 November 2023 - September 2024 🛛 🕈 Linz, Austria

- · DWH engineer to integrate adaptive ETL processes for Data Warehousing.
- Part-time employment, 24h / week



### Java Developer @Primetals Technologies

🛮 October 2020 - October 2021, February 2022 - November 2023 🛛 🗣 Linz, Austria

- Software Engineer for Continuous Casting Machines
- Working with Eclipse SWT and Java to develop software for casting machine design.
- Student employee, part-time, 10-20h / week

### Network Technician @Technician at JKU

🛮 October 2021 - February 2022 🛛 🗣 Linz, Austria

- Responsible at the Institute for Digital Business for hardware maintenance, server and software management, technical assistant for exams.
- · Student employee, part-time, 10h / week



### **Internships Primetals Austria @Primetals Technologies**

🛮 August 2019, September 2019, July 2020 🛛 🗣 Linz, Austria

- Software Engineer for Continuous Casting Machines
- · Implementation of smaller software parts for internal software tools to design casting machines
- · Internship, full-time

### Compulsory internships @Stiwa Group and Technosert

🔀 2014, 2015, 2016 👂 Hagenberg & Pregarten, Austria

- Implementation of backup tools, home automation visualizations and hardware manufacturing
- Internship, full-time

## **Education**

# Master of Science in Computer Science @Johannes Kepler Universität

🙎 2021 - Today 👂 Linz, Austria

- Thesis: Adaptive ontology-based ETL processing for Business Intelligence systems
- · Major: Data Science
- AVG Grade: <1.3</li>

### Bachelor of Science in Computer Science @Johannes Kepler Universität

🕱 2018 - 2022 👂 Linz, Austria

- Thesis: Performance Evaluation of the LMS/HSS hash-based signature system
- · Passed with distinction

### High Technical College (HTL) @Linzer Technikum Paul-Hahn-Straße ▼ 2012 - 2017 • Linz, Austria

- · Matura: Passed with distinction
- All years passed with distinction / flying colours

# Featured Projects \_



# Passion for technology @Personal

**∑** 2011 - Never ending

- · Building my own PCs, which started my interest in Computer Science
- 3D design and printing since 2020
- · Self-assembled and configured NAS-system on Ubuntu Server with LVM, Raid, Samba, DLNA
- Tech editor for German portal tech-review.de from 2014 until 2024
- · Laying patch cables everywhere to ensure sufficient network coverage
- Student dorm network admin team from 2021 to 2024
- · Raspberry Pi as a network DNS guard with Kodi installed for TV entertainment

# J⊻U Ear Spoof Detection Neural Network @University Project ▼ 2023 ♥ JKU

- As my master project, based on a seminar work, I implemented a neural network which can distinguish genuine biometric identifiers from fakes
- The network is trained to detect spoofed data for biometric ear identification
- · Python, PyTorch, Kaggle



# Personal Webpage @Personal

**▼** 2022 - Today

- The source for my webpage is also freely available. It uses Bootstrap 5, directly loaded from a CDN, as its CSS framework and utilizes very little custom CSS and JavaScript for some smaller refinements.
- HTML, CSS, Javscript

# AirBnB Barcelona Visualization @University Group Project ▼ 2022 ▼ JKU

- As part of the exercise track of "Visual Analytics" at JKU, we had to take a deep dive into data analysis including static
  plotting, correlation and getting new insights with techniques such as PCA and clustering.
- Implemented various statistical methods to assess the different pricing of AirBnB rooms in Barcelona
- Integrated Python libraries for visualization of geographical locations, graphs and plots
- Python, Jupyter Lab, Geopandas

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- As part of the exercise track of "Embedded and Pervasive System" at JKU, we implemented an detection and alarm system for
  your beloved plants which monitores the soils moisture levels and saves the data into a simple database
- Implemented two python programs on Raspberry Pis to communicate via MQTT with each other and pass sensor data.
- Integrated web page to view the soil moisture and room temperature over time.
- · Python, Shell, SQL

# **Skills & Interests**

