





# Katharina Sternbauer

Student, Data Scientist, Data Warehouse Engineer

 Stern1710  sternbauer.eu  contact@sternbauer.eu  Katharina Sternbauer

## Professional Experience



### Data Analyst @Primetals Technologies

 November 2023 - Today  Linz, Austria

- DWH engineer to integrate adaptive ETL processes for Data Warehousing.
- Part-time employment





### 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





### 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



### Internship Primetals Austria @Primetals Technologies

 August 2019 - September 2019  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



### 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

## Programming projects

## JYU 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

## JYU Raspi soil moisture detector @University Group Project

⌚ 2019 📍 JKU

- 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 monitors 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

## JYU Computer Street Parade @University Group Project

⌚ 2021 📍 JKU

- As part of the exercise track of “Computer Graphics” at JKU, we had to create our very own 30 second long video. As a part of the requirement a particle effect as well as a level of detail system were implemented. Bonus part: Very much queer.
- Implement 3D models and hand-crafted elements into a JavaScript framework
- Javascript, WebGL, Blender

## JYU Personal Webpage @Personal

⌚ 2022 - Today

- The source for this 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, Javascript

## Skills & Interests

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Technology

Data Science PC Hardware 3D printing & design Data Warehousing Scripting

Languages

German (native) English (fluent) Java Kotlin Rust (beginner) C (basics) SQL

Python (can plot pretty diagrams) C# (fundamentals) Shell

Sports

Boulder Badminton Volleyball Fistball

Interests

Reading Music Guitar Politics Social topics PC-related tech Cryptography

Internet of Things