
Thomas Kreidl

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Software Developer

Passionate about mastering new technologies and seamlessly integrating them into my expertise. Specialized in data-driven solutions, I make informed decisions through statistical analysis and AI implementation. I prioritize scalability in system design to ensure smooth future expansions.

WORK EXPERIENCE

CaptiVR

Software Developer • Part-time • 08/2024 - Present

- Development of a Blazor web application with static server-side and interactive components, tenant-specific user authentication, payment processing, and integration of an EF Core database.

Siemens

Masters thesis • 11/2023 - 06/2024

- Generation of structured text (SCL) using a language model (LLM) and optimization through the integration of a knowledge base with enhanced generation via a retrieval-augmented generation (RAG) component.

Technische Hochschule Nürnberg Georg Simon Ohm

Student Assistant • 07/2022 - 10/2022

- Programmierung von UX und Backend für Orca-Tonaufnahmen. Implementierung und Analyse von Einbettungen und dichte vektorbasierte Suche nach ähnlichen Klangabschnitten mit Elastic Search.

Syntegon

Bachelor Thesis • 10/2021 - 02/2022

- Programming of UX and backend for Orca audio recordings. Implementation and analysis of embeddings and dense vector-based search for similar sound segments using Elastic Search.

Bosch

Application developer • 01/2017 - 08/2017

- Migration and validation of Siemens TIA software.

Mechatronics engineer • 09/2013 - 01/2017

- Vocational training as a mechatronics technician.

SKILLS

Android Development, Azure Cognitive Services, C#, C++, CI/CD, Data Science, Deep Learning, Docker, Elasticsearch, Gameification, Git, Gitlab, Information Retrieval, Java, Kotlin, Machine Learning, Master of Science in Informatik, Mobile App Development, .NET, .NET Framework, PLC Programming, Python, Siemens TIA Portal, TIA Openness API, Unity, Visual Studio, Vue.js

EDUCATION

Master of Science - MS in Informatik in Informatik

Technische Hochschule Nürnberg Georg Simon Ohm
03/2022 - 06/2024

Bachelor of Engineering - BE in Elektrotechnik und Informationstechnik

Technische Hochschule Nürnberg Georg Simon Ohm
09/2018 - 03/2022

PROJECTS

Analysis of politicians' tweets to study political communication. •

10/2022 - 01/2023

Analyzed Twitter data to examine the communication patterns of German MPs around the 2021 federal election. Shifts towards the "Traffic Light Coalition" (SPD, Greens, FDP) were assessed by comparing interactions before and after the election. The Girvan-Newman algorithm identified MP clusters, and network metrics were used to evaluate changes.

An alternative approach to identifying n-calls in audio tapes. •

03/2022 - 09/2022

Developed a method for detecting similar segments in audio sequences using machine learning. A dense vector field in Elasticsearch performs the similarity analysis.

Sleepest - Smart Android alarm clock with automatic sleep detection. •

02/2021 - 02/2022

Development of an Android app for automatic sleep detection. The time of falling asleep, wake-up time, and sleep phases of the user are fully recorded in the background on the mobile device.

Comparison of neural network models for predicting the power output of photovoltaic systems.

The study compares neural network models for predicting the performance of photovoltaic (PV) systems using spatiotemporal data. Machine learning models forecast daily power output based on weather data and meta-parameters.