Jonas Zausinger

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Education

Since 04/2022	**M.Sc. Computer Science, Technical University Munich**. Intermediate grade: 1.2 Majors: Machine Learning and Data Analytics
10/2018 - 07/2021	**B.Sc. Computer Science, University of Passau**, Grade: 1.2. Bachelor Thesis: Implementation of a Dynamic, Client/Server based Data Explorer with Algorithmic Execution Capabilities
2010 - 2018	**Burkhart-Gymnasium Mallersdorf-Pfaffenberg**, Graduation: Abitur (grade 1.3).

Work Experience

Since 04/2024	**Internship in Data Analytics and AI, Bosch**, *Abstatt*. ○ Developing a retrieval augmented generation system to find and summarize information from large volumes of emails, enhancing user accessibility and efficiency. ○ Optimizing vector embedding for time series data.
07/2023 - 03/2024	**Working student in Data Analytics and AI, Siemens**, *Munich*. ○ Executed and implemented data analysis, anomaly detection and clustering of various time series data from milling machines and additive manufacturing devices, resulting in failure detection rate of 90 %. ○ Implemented advanced machine learning models for forecasting machine deviations, contributing significantly to a major research project. ○ Executed the migration of an anomaly detection application from server-based infrastructure to edge computing, expanding the application's usability across various operational environments.
04/2022 - 05/2023	**Working student in software development, IAMDS GmbH**, *Passau*. Contributed to AI development and data analysis for the veoPipe project in collaboration with the Fraunhofer Institute, using Python and Tensorflow to enhance battery management systems in electric cars.
10/2021 - 04/2022	**Full-time internship in software development, IAMDS GmbH**, *Passau*. ○ Design, development and project management for the IAMDS dataplatform - A platform for the implementation of various Data Driven Use Cases. ○ Developed with Java Spring Boot, Python, Tensorflow, TimescaleDB, Kafka, MQTT, Docker and Kubernetes. ○ First completely in-house project, to develop a new customer base.

04/2020 - 09/2021	**Working student in software development, IAMDS GmbH**, *Passau*. Backend, frontend and mobile development for EasyPART, EasyWerkstatt and Smart Health Check App using React.JS, Node.JS, Vue.JS, React Native and MongoDB

Other programming experience

Since 11/2023	**Member of the AI Career Kickstart Program from AppliedAI.** A two-semester training program covering technical topics in AI, such as Machine Learning Operations, as well as non-technical aspects like regulations, use case development, and ethical considerations.
10/2023 - 02/2024	**University project Infineon demand forecasting**. Development of a model to predict the demand for over 1000 Infineon products.
04/2023 - 03/2024	**University project Legal Text Interpretation using Large Language Models**. Developing an application based on large language models to automate legal text interpretation.
10/2022 - 02/2023	**University project HyperLogistic**. Developing an application to manage and solve logistics problems using automatic optimization through simulation software and machine learning with Flask, Python, Pytorch, and Simpy.
10/2022 - 02/2023	**University Project NeRF Style Transfer**. Applying Artistic Style Transfer to Neural Radiance Field (NeRF), a neural network for rendering 3D scenes, in Pytorch.
02/2021 - 06/2021	**Bachelor thesis Data Explorer**. Development of a data visualization tool with algorithmic execution capabilities in Python and Javascript. Published as a contribution to a scientific paper at the AllData23 conference, which was awarded the Best Paper Award.

Knowledge and Skills

Technologies	Java, JavaScript, Python, SQL, C, Tensorflow, Pytorch, Spring, ReactJS, VueJS, Kubernetes, Docker
IDE	IntelliJ IDEA, VisualStudio, Eclipse

Language Skills

German	Native Language
English	English (B2, Master lectures are in English, Bachelor thesis written in English).

Engagement

since 2010	Soccer player of SV Eggmühl
since 2016	Member of the Volunteer Fire Fighters of Buchhausen