

Darius Rücker

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Professional Summary

I consider myself a self-driven student with a strong sense of curiosity and first-principles thinking. I am also an aerospace enthusiast with hands-on experience in repairing, maintaining, and flying gliders and airfield environment tools. Currently, I'm also developing my skills in machine learning and starting my studies in Aerospace Engineering.

Education

Bachelor Aerospace Engineering October 2025 – June 2028
Technische Universität München, München, Bayern

Allgemeine Hochschulreife - Abitur August 2023 – June 2025
Alexander-Hegius-Gymnasium, Ahaus, NRW ⊙1.7

Maths and English as advanced courses.

Good and Very Good grades in STEM subjects (maths, computer science, physics, chemistry).
Abitur award from the DPG.

Participation in Social Extracurriculars, to name a few:

- Youth debate with German Ambassador Dr. Cyrill Jean on immigration of talent in the Euregio region at Enschede City Hall
- Selected as student panelist for the school, having talks with people like ARD correspondent Ralph Sina on US-EU relations at Ahaus Cultural Center
- Participated in Saxion University's International Project Week, collaborating with international students on industry-provided project tasks in Enschede

Abitur final examination subjects:

- | | |
|--------------------|------------------------------|
| • Advanced Maths | • Social Sciences |
| • Advanced English | • Besonderelernleistung |
| • Physics | Exceptional Academic Project |

Exceptional Academic Project:

"Exploration of Machine Learning for Continuous State Environments and Discrete Action Spaces. Aimed at enabling ML agents in orbital environments to achieve specific objectives while being influenced by gravitational forces"

Licenses, Permits and Certifications

- | | |
|---------------------------------------|----------------------|
| • Drivings License Class AM, B, and L | • Soon to have SPL |
| • Class 2 Medical | • BZF II & Skylaunch |

Work Experience

Junior Software-Developer / LLM Developer

September 2024 – May 2025

Dexter Health, dexter-health.com - Köln, NRW

- Dexter Health is an AI startup in the healthcare sector, developing AI-based documentation tools for caregivers. The goal is to smooth out the exhaustive documentation work of healthcare professionals, making their jobs easier and more efficient.
- Designing, developing and testing LLM-based tools across diverse semantic contexts, including data structuring, labeling, fine-tuning and crafting new input/output architectures.
- Developing new features and projects for the app with technologies like image segmentation and speech-to-text models to complement the LLMs functionality and its tools, while optimizing performance.

Junior Software-Developer / LLM Developer

January 2024 – August 2024

Timeless AI, timeless-ai.de - Gescher, NRW

- Timeless AI is a startup aiming to provide seamless AI integration solutions that automate and streamline IT processes through platforms like Microsoft Teams, transforming routine operations while adapting to existing company systems.
- My main responsibility was to develop data curation pipelines to process diverse content sources and multiple digital formats (including PDFs, Docx, and websites) for LLM applications.
- Developed tools for a new industry with limited existing solutions, including semantic chunking for processing long-context documents.
- The role required understanding in Knowledge Bases, API integration, OCR, and digital format processing. Additionally, it demanded outside the box thinking and creative problem-solving skills.

Various jobs over the years

Chronologically

- Backstage Assembly, *Stagelife.events*
Ahaus, Germany 2022
- Kitchen Assistant, *Copa Cabana*
Ahaus, Germany 2021
- Family Restaurant, *Casa Tucan*
Playa Del Carmen, Mexico -throughout the years-
 - Waiter & Kitchen Assistant
 - Customer service for mixed clientele
 - Digital Media Creation

Internships

Tobit Software, IT School Internship

24.10.2022 – 04.11.2022

Tobit Software, Ahaus, NRW

2 Weeks

Tobit Software is a German company specialising in digital solutions, with Chayns as its main product, transforming social media presence into an easy, customizable app and website platform for businesses and users.

- Learned to work with the Chayns software platform
- Built skills in HTML, CSS, and JavaScript
- Improved my time and work management skills
- Strengthened team communication abilities

Quote from Tobit representatives (translated with deepl, not modified):

“He has worked with great commitment and interest and has already solved and programmed smaller tasks independently. This has given him an insight into the professional field of IT specialists.”

Projects

Finished Projects

A solar calculator to get approximations on solar radiation for specific GPS coordinates.

Satellite system simulation for ML agent training. **Private projects in development:**

Semantic classification of website contents for Knowledge Base automation.

Drone Deep Learning integration.

General Skills

- | | |
|-----------------------------------------|-------------------------------------------|
| • CMS | • Prompting |
| • Content Creation | • SQL |
| • Python - JavaScript/Typescript - Java | • Git skills |
| • Microsoft Office | • Softskills: Teamplayer - Adaptability - |
| • LaTeX | Transparency - Agency |

Languages

Spanish (mother tongue)

English (proficient)

German (proficient)

Clubs

Segelfluggruppe Wenningfeld e.V.

2019-Present

Gliding club.

Gliding is a form of unpowered flight in which pilots use natural air currents, such as thermal winds, to fly long distances, in engine-less aircraft.

Gained hands-on experience in aircraft maintenance, flight operations, navigation, meteorology, and aviation safety procedures.

Gained skills in mechanical and electrical work, aerodynamics, meteorology, and flying principles + got experience and expertise in operating various vehicles (tractors, launchers, trucks) and also softskills like coordinating teamwork, flight planning, and ground crew organization.