

PROFILE

Name	David M. Rainer
Location	Graz, Austria
Languages	German, English

PORTFOLIO & CONTACT

www.davidrainer.dev

EDUCATION

Master's programme
Cybersecurity and Ethical Hacking
FH JOANNEUM · 2026–present

Bachelor of Science
Software Engineering and Management
TU Graz · 2021–2025

High School Diploma
Electrical Engineering, Automation Technology
HTL Weiz · 2013–2018

SKILLS

PRIMARY TOOLS
TypeScript, JavaScript, Node.js
HTML, CSS, Sass, Tailwind

ALSO USED
Python, C++, Rust

AI
Agentic coding, AI agents

I choose the language that fits the problem and pick up others as needed.

INTERESTS

Self-hosting, AI workflows, cybersecurity, weight training, calisthenics and motorcycles.

David M. Rainer

WEB DEVELOPER & SOFTWARE ENGINEER

WORK EXPERIENCE

M365 DEVELOPER & SOLUTION ARCHITECT 10/2024 – present
KNAPP AG · Hart bei Graz

- **SharePoint migration:** I wrote the scripts our team used to migrate hundreds of SharePoint site collections, merge the English and German collections into one, and replace legacy components such as Valo.
- **Development and architecture:** Design and build Microsoft 365 collaboration tools for business teams.
- **Teams:** Administer Microsoft Teams for secure collaboration.

IT & AI SUPPORT AND SMALL BUSINESS CONSULTING 01/2024 – present
Graz

I advise small businesses on IT and AI and help friends and relatives with everyday IT questions. For example, I explain how self-hosting works, how AI agents use retrieval-augmented generation (RAG), and what an agent harness is.

FULL STACK WEB SOFTWARE ENGINEER 01/2022 – 05/2024
Byway · Graz

- **CMS development:** Built custom modules and content management systems tailored to client needs.
- **Internal tools:** Streamlined employee onboarding.
- **Client teams:** Joined development teams to deliver web projects.

CONTROL SYSTEMS PROGRAMMER 08/2019 – 07/2021
Glavassevich Wintergärtner GmbH · Graz

Built winter gardens and programmed controls for sun protection systems and louvered roofs.

PLC PROGRAMMER 02/2019 – 08/2019
AUTFORCE Automations GmbH · Lebring

Developed automation modules, including a weighing unit for automatic transmissions.

BACHELOR THESIS

A Comparative Analysis of Personalized Meal Generation Approaches
Compared two systems for recommending meals from available ingredients: one using large language models, the other using database queries. The comparison focused on the recommendations and the experience of using each system.

DIPLOMA THESIS

Test Stand for Automotive Transmissions
Developed a Siemens PLC test stand to demonstrate how automotive transmissions work and how they are tested.

PERSONAL PROJECTS

Home automation
I love the flexibility of open source. If something doesn't work quite the way I want, I can change it or build my own. I wrote custom software that uses a camera to tell Home Assistant when I lie down on the couch, so it can turn off the living room lights and my reading lamp. I could just flip a switch, but figuring out how to make the room notice was the fun part.
Local AI and agents
I host AI models locally, build my own AI agents, and develop retrieval-augmented generation (RAG) systems. For example, I can ask one of my agents in Mattermost to find a related GitHub issue or open a new one without leaving the conversation.

SELECTED COURSES

- **Harvard University:** CS50's Web Development
- **Harvard University:** CS50's Introduction to Computer Science
- **Udemy:** Deep Learning and Computer Vision