

HANS KASPAR

SOFTWARE DEVELOPMENT
DATABASE DEVELOPMENT
MACHINE LEARNING

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🌐 ctrly.de/

🔗 github.com/hans-ctrly



PROFILE

I build software applications, database solutions, and AI tools for teams and projects of all sizes. My academic and professional focus has been on topics surrounding climate science and climate change. I enjoy working with a user-centered approach in interdisciplinary teams, to create tools that are practical, helpful and scalable. My particular experience is in portfolio management systems and machine learning applications.

EDUCATION

- **Bachelor of Political Science / Political Economics (2.3)**
University of Freiburg | 2015
- **Master of Computational Science (1.9)**
University of Potsdam | 2025

Master thesis on neural networks as surrogate models in geophysical simulation (1.0)

LANGUAGES

- **German** - native
- **English** - C1 (IELTS 8,0)
- **French** - A2

SKILLS

- **Programming**
 - Python, C++, C, Java, JavaScript, PHP, SQL, VBA, ...
 - **Data & AI**
 - Designing efficient data structures, and transparent data processing workflows
 - Designing and training machine learning models for diverse scenarios (physics simulations, financial risk assessment, computer vision, ...)
 - Integrating LLMs into project management workflows
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EXPERIENCE

Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)

Berlin | 2015 - present |

Progression: Intern → IT Specialist → **Lead IT Project Manager**

- Held lead responsibility for IT architecture and infrastructure in major climate funding programmes (IKI, EUKI)
 - Created modular solutions for connected management of portfolios, applications and CRM data
 - Connected systems through various interfaces, from custom and REST APIs to PowerAutomate and PowerQuery
 - Designed and implemented project management workflows for teams of up to 100 people
 - Designed and developed business intelligence dashboards and reporting solutions
 - Led end-to-end development of custom software, from user-stories to deployment
 - Spearheaded the integration of AI assistants into production workflows
 - Built and managed websites and platforms for thousands of concurrent users
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