

# HANS KASPAR

SOFTWARE DEVELOPMENT  
DATABASE DEVELOPMENT  
MACHINE LEARNING

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🌐 [ctrly.de/](http://ctrly.de/)

⚡ [github.com/hans-ctrly](https://github.com/hans-ctrly)



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## 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.

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## 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

## 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

