



Steffen Remus

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Core Skills & Expertise

Machine Learning & AI:

NLP, Deep Learning, GenAI, Information Extraction, Information Retrieval, LLMs, RAG

Software Engineering:

CI/CD, TDD, Containerization, Web-services, Orchestration Frameworks, Front-End Web Development, responsive UI implementation

Data Engineering:

SQL, NoSQL, Vector Databases, MapReduce, Cluster Management, DFS, ETL

Management & Leadership:

Research Collaborations, Teaching, Supervision, Project Management, SCRUM, Workshop Organization

Problem-Solving & Analysis:

Critical Thinking, Algorithmic Design

Technical Skills

Programming Languages:

Python, Java, JavaScript, TypeScript, R, $\LaTeX$, Scala, C#, HTML/CSS, React

Cloud & DevOps:

AWS, GCP, Azure, Docker, Linux, SSH, CSSH, GH Actions, Ansible

Languages & Interests

Languages:

German (native), English (fluent), Spanish & French (basic)

Interests:

- 🏃 Running
- 🏄 Kitesurfing
- 🚴 Biking
- 💻 Technology
- 🔧 Problem-Solving

*last updated July 22, 2026

§ Professional Summary

Passionate software engineer and machine learning & NLP expert with 10+ years' experience. Proven track record in the development & provision of technical support for AI applications utilising ML or GenAI technologies, scalable data pipelines, and CI/CD-driven lifecycles. Experienced in cloud technologies (AWS/GCP/Azure), containerized deployments, observability and interdisciplinary/cross-functional technical mentoring.

§ Professional Experience

Language Technology Group & HITEC e.V., University of Hamburg, Germany

since 07/2023 Postdoctoral Research Scientist

10/2016 to 06/2023 .. Pre-doctoral Research Scientist

- ▶ Conducted original research in NLP and AI with Prof. Chris Biemann
- ▶ Led and developed ML-driven projects, collaborating with industry partners
- ▶ Developed and delivered courses in ML, DL, NLP, and Software Engineering
- ▶ Supervised 30+ theses, interns, and student researchers
- ▶ Maintained key infrastructure, including a Hadoop cluster and GPU servers
- ▶ Organized research workshops and served as a reviewer for 50+ issues

Freelance Consulting Services, Germany

since 2016 occasional & part-time consultancy services

- ▶ Provided expert guidance on NLP and ML projects for clients such as Glanos GmbH, T-Systems, and Merck KGaA

International Business Machines (IBM)

05/2015 to 11/2015 .. Research Intern at the Zurich Research Lab, Rüschlikon, Switzerland

- ▶ Developed systems for Named Entity Recognition and Relation Extraction

07/2014 to 10/2014 .. Research Intern at the Thomas J. Watson Research Center, Yorktown Heights, NY, USA

- ▶ Enhanced knowledge graphs using distributional semantics

Technical University of Darmstadt & DIPF (Germany)

04/2013 to 06/2016 .. Research Scientist

- ▶ Member of the 'Knowledge Discovery in Scientific Literature' graduate school working on *focussed webcrawling*

ConWeaver GmbH, Darmstadt, Germany

10/2012 to 04/2013 .. Software Engineer (full time)

11/2009 to 09/2012 .. Software Engineer (part-time)

🔗 [more...](#)

§ Education

Dr.rer.nat. (Ph.D.) in Computer Science, University of Hamburg, Germany (2023)

Thesis: "Domain Defining Context: On Domain-Dependent Corpus Expansion and Contextualized Semantic Structuring"

M.Sc. in Computer Science, Technical University of Darmstadt, Germany (2012)

Thesis: "Automatically Identifying Lexical Chains by Means of Statistical Methods – A Knowledge-Free Approach" – Nominated for best thesis award at the German conference for computational linguistics (GSCL)

B.Sc. in Computer Science, Technical University of Darmstadt, Germany (2009)

Thesis: "Next-Gen IDE – Evaluation Of Statistical Approaches For Intelligent Code Completion"

State Certified Engineer (Techniker) CS&N, Frankfurt (Main), Germany (2005)

Certified Apprenticeship (Ausbildung) ITSE, Siemens AG, Frankfurt (Main), Germany (2000)

High School Brüder Grimm Realschule, Frankfurt (Main), Germany (1997)

§ Research & Scientific Contributions

- ▶ **Research Projects:** [JOIN-T2](#), [WebAnno meets EXMARaLDA](#), [BIMDanube](#), [KDSL](#) (🔗 [more information ...](#))
- ▶ **Visiting Researcher:** Bar Ilan University (Israel), IIT Kharagpur (India)
- ▶ **Conference & Journal PC:** EMNLP, ACL, AACL, TACL, ...
- ▶ **Workshops & Shared Tasks Organized:** GermEval 2020, GermEval 2019, Biomedical Information Management Workshops, IBM Watson workshops

§ Public Work

- ▶ (Co-)authored over 30+ peer-reviewed papers. (🔗 [more information ...](#))
- ▶ Contributed to 50+ open source project repositories.