

Alex Senger

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EDUCATION

University of Liverpool

Jan 2026 — Aug 2028

Master of Science in Artificial Intelligence (In Progress)

Remote

Rheinische Friedrich-Wilhelms-Universität Bonn

Sep 2021 — Mar 2025

Bachelor of Science in Computer Science

Bonn, Germany

- Final Grade: 2.2 | Bachelor Thesis: 1.0
- Selected Relevant Modules: Algorithms and Programming, Data-Centric Computer Science, Introduction to Data Science, Agile Software Development, Intelligent Vision Systems, Reactive Security

WORK EXPERIENCE

Junior IT-Consultant, DevOps Engineer, Python Developer

Apr 2024 — Present

ORDIX

Germany

- Currently on sabbatical from this role to complete the MSc in Artificial Intelligence at the University of Liverpool
- Responsible for the operation of the monitoring system (Elastic Stack + Icinga 2) for an enterprise client
- Designed deployment strategies and set up PostgreSQL clusters in Kubernetes using CloudNativePG and Argo CD for a client in the retail sector
- Conducted a proof-of-concept evaluation of high-availability database solutions (Patroni, YugabyteDB, CockroachDB) for a client in the financial sector
- Created API contracts and initial code examples for an AI Model Manager project
- Built internal web apps with Python, Streamlit, Django, and React for employee profiles and project management
- Created automation tools for PDF parsing, data extraction, and XML/Word generation using Python (pandas, PyPDF2, Jinja2)
- Authored documentation including operational guides and blog articles, and presented results to internal teams
- Held presentations on technical topics at external meetups and attended industry events
- Prepared teaching materials and conducted training for clients on Python (Basics and Advanced Programming) and GitLab CI/CD

Tutor - Software Technology

Oct 2023 — Mar 2024

University of Bonn

Bonn, Germany

- Conducted tutorials for the “Software Technology” module
- Prepared exercise sheets, managed schedules, and supported student learning

Lecturer / Instructor

Nov 2021 — Oct 2022

Jobwerk Porz gGmbH

Cologne, Germany

- Taught IT and computer science to students (grades 5-10) and supervised school events and activities

OTHER PROJECTS

Project Member, Applied Software Development Project Group

Apr 2023 — Aug 2023

- Developed a Python library integrating pandas, seaborn, and scikit-learn into a unified, user-friendly interface for educational Data Science and Machine Learning use
- Focused on usability and practical application for beginner programmers

SKILLS

- **Programming:** Python, SQL, Java, C
- **Tools & Infrastructure:** Terraform, Ansible, Kubernetes, Docker, Argo CD, GitLab CI/CD, Elasticsearch, Kibana, Logstash, Icinga 2, Oracle Cloud Infrastructure
- **Databases:** PostgreSQL, CockroachDB, YugabyteDB
- **Methods:** Agile (SCRUM), Pair Programming, Requirements Engineering
- **Languages:** German (Native), English (Fluent), Russian (Intermediate)