FELIX WINTERHALTER

Software developer with experience in cloud-native systems and applied AI/LLM solutions

detailed contact info upon request: work@fxwin.net · https://fxwin.net

EXPERIENCE

Materna Information & Communications SE — October 2023 – Present
Software Developer (Python) — *Stuttgart / Dortmund / Remote*

· Developed software for long-term client projects as well as prototype and showcase applications, primarily in Python, with deployment on AWS and Azure.
· Served as a core developer on a pilot project that was extended into a long-term client engagement.
· Built LLM-based applications for document processing, agentic information retrieval, and user support.
· Deployed and optimized computer vision models on embedded devices.
· Applied classical machine learning to fraud detection on a social media platform and created data visualizations for analysis and automated reporting.
· Mentored working students during internships and thesis work, as well as new employees.
· Represented the company and our work externally (Showcase @ E-World 2026).

EDUCATION

University of Stuttgart — 2022–2023
M.Sc. Computer Science (Informatik) — *Grade: 1.8*

· Thesis: "A Feature-Level Analysis of the Adversarial Robustness of RAFT" (Computer vision, optical flow, interpretability of neural networks)
· Research project: "Quantum No-Free-Lunch" (Quantum computing, machine learning; acknowledged contribution to published research paper)

University of Stuttgart — 2017–2022
B.Sc. Computer Science (Informatik) — *Grade: 2.3*

· Thesis: "General-Relativistic Polygon Rendering" (Low-level graphics programming, differential equations, general relativity; acknowledged contribution to published research paper)

University of Stuttgart — 2014–2017
B.Sc. Mathematics — *Not graduated*

Johannes Kepler Gymnasium Reutlingen — 2014
Abitur — *Grade: 1.5*

TECHNICAL SKILLS

Programming	**Python**, Java, HTML, CSS, JavaScript, TypeScript
Cloud / DevOps	**AWS**, **Azure**, Git, GitHub Actions, Azure DevOps, CI/CD, Docker, AWS Lambda, SQS, S3, DynamoDB, PostgreSQL
AI / LLM	**LLM applications**, OpenAI API, Anthropic API, LangChain, LangSmith, Langfuse, Azure Document Intelligence, vector databases
ML / CV	**Machine learning**, **computer vision**, PyTorch, TensorRT, NVIDIA Jetson, scikit-learn, AWS SageMaker
Data	pandas, NumPy, Polars, Matplotlib, seaborn

LANGUAGES

German	Native speaker
English	Fluent, ca. C1+