

Philipp Walter



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Languages

Spanisch – B1

Englisch – C1

Deutsch – C2

I'm a Cybersecurity graduate with a background in software development and DevOps, seeking to further develop expertise in penetration testing and security consulting. Particularly interested in understanding how vulnerabilities emerge in modern applications and cloud environments and exploring the intersection of secure systems, elegant software design, and seamless user experiences.

Education

October 2022 – April 2026 TU Darmstadt

- Master of Science: **IT-Security**

September 2023 – February 2024 UPM Madrid

- Semester Abroad: **IT-Security**

October 2018 – August 2022 University of Applied Sciences (Heilbronn)

- Bachelor of Science: **Applied Computer Science**

Work experience

Oct 2024 – Feb 2026 Hiwi Department Software & AI Business

March 2024 – now Walter Dibbern GbR

- Self Employed (Custom Web Applications)

May 2023 – Feb 2024 Möbus Digital Solutions

- Working Student (Full Stack Developer)

July 2022 – October 2022 Kitchn.io

- Working Student

July 2021 – August 2022 Freelancer

- Notion Services

October 2021 – Februar 2022 Deutsche Telekom Technik GmbH

- Bachelor Thesis in Monitoring & Dataanalytics

March 2021 – August 2021 Deutsche Telekom Technik GmbH

- Working Student in Monitoring & Dataanalytics

October 2020 – March 2021 Deutsche Telekom Technik GmbH

- Practical semester in Monitoring & Dataanalytics

October 2019 – June 2020 Bosch GmbH

- Working Student

June 2018 – July 2018 Deutsche Telekom Technik GmbH

- Internship

Expertise

Programming languages

- Go
- Python
- Java/Kotlin
- JavaScript/HTML/CSS
- Dart (basics)
- Ruby
- C, C++, C# (basics)
- Swift

Hobbys

- Table Tennis
(Verbandsoberrliga)
- Padel
- Beachvolleyball
- Darts
- Cooking

Projects

Masters-Thesis

Designing Adaptive and Explainable Anomaly Detection for Sustainable Security Systems: A Holistic Approach to Resource Optimization

Period: Mai 2025 – November 2025
Institution: TU Darmstadt
Technologies: React, Typescript, FastAPI, Docker
Methods: Design Science Research (DSR), Expert Interviews, Systematic Literature Review

Academic Project

Period: October 2025 – February 2026
Technologies: GCP, VertexAI, React, Docker

Academic Project

Period: October 2024 – February 2025
Technologies: GCP, Langchain, OpenAI, React, Docker

Hacker-Contest

Period: April 2024 – July 2024
Technologies: Kali Linux, CTF (usd AG Platform)

Website (Personal Blog)

Period: June 2022 - now
Technologies: Next.js (13), Tailwind CSS, Sanity
API's: Spotify, Instagram

Bachelor-Thesis

Kubernetes Cluster für Monitoring & Dataanalytics Plattform

Period: October 2021 – February 2022
Company: Deutsche Telekom Technik GmbH
Technologies: Victoria Metrics Cluster, Alerta, Prometheus, Grafana
Methods: Scrum

Snake-Game in AWS

Cloud Computing (Note 1.0)

- Go Backend (containerized with Docker)
- Svelte Frontend
- Terraform Automation

Publications

CONFERENCE PAPERS

Niclas Brune, Oliver A. Vetter Philipp Walter, and Peter Buxmann. *“Understanding the Environment: How Generative AI Reshapes Organizations’ Sensemaking in Sustainability Reporting.”*

Proceedings of the International Conference on Information Systems (ICIS 2025), December 2025.

Niclas Brune, Oliver A. Vetter, Walter, Philipp and Peter Buxmann. *“SustAI n’: Designing Generative AI to Support Environmental Sensemaking.”*

Proceedings of the 33rd European Conference on Information Systems (ECIS 2025), June 2025.

UNDER REVISION

Walter, Philipp. Niclas Brune, Miriam Gräf, and Peter Buxmann. *“GADS: A DSR Approach to Designing Green Anomaly Detection Systems: Driving Security into Resource Efficiency.”*

Submitted to the Thirty-Fourth European Conference on Information Systems (ECIS 2026), Milan, Italy.