

Axel Lorenzen-Zabel

10+ Years in Geospatial, Systems & Development | Passionate about DevOps, Machine Learning, Security, Mobility, Technology and Society

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EXPERIENCE

deeper.technology GmbH, Rostock – System Architect

JULY 2021 - PRESENT

I optimize system **uptime**, data **reliability**, and development **efficiency** through SRE best practices, PostgreSQL expertise, and **cloud-native** CI/CD workflows. My proficiency in web mapping, OGC standards, and **full-stack** development (Vue, Svelte, Tailwind, PHP, Django) enable data-driven insights and **scalable** MLOps.

DVZ-MV Datenverarbeitungszentrum

Mecklenburg-Vorpommern GmbH, Schwerin/Rostock –

System Engineer

MAY 2020 - JUNE 2021

I enable seamless **integration** and **delivery** of state geospatial data, including **aerial photography**, satellite imagery, and diverse **environmental** and **planning data** – ensuring **INSPIRE compliance** – empowering citizens, institutions, and companies to make informed decisions.

Universität Rostock, Rostock – research associate

JULY 2017 - APRIL 2020

I was responsible for the OpenGeoEdu project's **online learning environment**, conducting research, developing the platform and designing effective course modules. This ensured successful development and operation and ultimately expanded the use of **open data in geospatial education** and research

wpd AG, Rostock – GIS-Consultant & Analyst

JUNE 2016 - DECEMBER 2016

As a GIS Analyst and Consultant at wpd, I leveraged geospatial expertise to **manage geodata**, create detailed **site** and **construction plans**, and prepare comprehensive **planning documents** for offshore wind farm approval procedures, supporting national and international projects.

DATABASES

PostgreSQL
MySQL
MariaDB
SQLite
PostGIS
Elasticsearch
Redis
InfluxDB

DEVOPS & INFRASTRUCTURE

Docker, Compose, Swarm
Kubernetes
Helm
IaC (Terraform, Ansible)
Linux (Ubuntu, debian, CentOS)
AWS (EC2, ECS, LightSail, ELB)
GCP (Compute, App)
CI/CD Tools (GitLab CI, Jenkins)

FRONT-END DEVELOPMENT

HTML5
CSS
JavaScript
React
Vue.js
Svelte
Sass
Vercel
Webpack

BACK-END DEVELOPMENT

Python
Java
PHP
Django
Node.js
GraphQL
REST APIs
SvelteKit

GEOSPATIAL

ArcGIS
GDAL
GRASS
QGIS
GeoServer
deck.gl
Geonetwork
Geonode
OpenStreetMap (nominatim, overpass)

EFTAS Fernerkundung Technologietransfer GmbH,
Münster – self-employed geographer

MAY 2015 - NOVEMBER 2015

Contracted by EUROSTAT on behalf of the European Commission to map **land cover and land use** in Mecklenburg-Western Pomerania for the [LUCAS survey](#), providing data essential for agricultural monitoring, environmental policy development, and climate change analysis

EDUCATION

Universität Greifswald, Diplom-Geograph

OCTOBER 2006 - SEPTEMBER 2014

Diploma thesis: "The use of location-based services using the example of the location-based augmented reality/alternate reality game 'Ingress' in Greifswald"

Ancillary subjects Communication Science & Geology

PROJECTS

VISIONZERO – *BMVI-DataRun 2019*

Increase perceived cycling safety with [open data](#).

VERSION CONTROL

Conventional commits
Git
GitHub
GitLab
Semantic versioning
SVN
ticketing (issues, milestones)

ADDITIONAL TOOLS & TECHNOLOGIES

L^AT_EX
LLMs (GPT-4, LLaMA, Gemini, Mistral)
Lua
Monitoring (prometheus, loki, grafana)
Supabase
SSO (WebAuthn, OAuth2)

METHODS/Frameworks

Agile
Design thinking
DevSecOps
GitOps
Hacker ethic
ITIL 4
Kanban
Scrum

LICENSES & CERTIFICATIONS

GDPR & copyright law
Class B driving license

AWARDS

BMVI-DataRun 2019

Awarded **1st** prize in the "Community" category €1000

BMVI-DataRun 2019

Award in the category "Digital bike hacks"

LANGUAGES

english