Philipp Zettl

Backend Engineer & Solutions Architect

Berlin, Germany
philipp@godesteem.de
philsupertramp
HuggingFace: hf.co/philipp-zettl

Professional Summary

Result oriented Backend Engineer with 4+ experience designing, developing and deploying scalable web backends using Python, FastAPI/Django and (non) relational or vector database systems. Skilled in SDLC from requirement gathering to automated testing and experise in technical leadership, mentoring junior developers, and driving engineering best practices. Successfully architected a message processing system that parses and routes messages in parallel within ≈ 1.1 seconds. Passionate about writing open, clean, maintainable code and optimizing system performance.

Skills

Languages	Python, Bash, C/C++, MATLAB, Go, JavaScript	**Frameworks & ML**	FastAPI, Django, Flask, PyTorch, Transformers, llama.cpp
Cloud & DevOps	AWS, Docker, Kubernetes, Terraform, Terragrunt, Helm	**Databases**	MongoDB, Redis, SQLite, MySQL, PostgreSQL, Qdrant

Experience

Jan 2025–Dec 2025

Solutions Architect & Founding Engineer, *easybits GmbH*, Berlin

Tech Stack: *Python, Django, PostgreSQL, MongoDB, Qdrant, RabbitMQ, Docker, Kubernetes, Terraform, AWS, PyTorch, Transformers, sentence-transformers, llama.cpp*

- Moved Python side of project from prototype state to production-grade services.
- Designed and implemented new automation solutions using self hosted models as well as API providers, e.g. semantic-search, text extraction for documents, text classification and image generation solutions.
- Introduced platform security mechanics, e.g. RFC like workflow for core changes, semantic versioning, release processes.
- Built up test case coverage for all ($\approx$ 10) Python projects to 98% and maintained the platform infrastructure on AWS (EKS cluster).

May 2022–Dec 2024 **Solutions Architect & Lead Python Engineer**, *MoBerries GmbH*, Berlin

Tech Stack: *Python, Django, JavaScript, React, PostgreSQL, MongoDB, Qdrant, RabbitMQ, Docker, Kubernetes, Terraform, AWS, PyTorch, Tensorflow (2.0), Transformers, sentence-transformers*

- Supervised Python team, architected solutions for platform and developed matching related features.
- Built in-house matching for the arabic language.
- Ran big scale evaluation of the matching algorithm for foreign governments during due diligence processes.
- Due to financial down sizing there was no team to supervise anymore after September 2024.
- Starting development of an asynchronous messaging platform for AI automation, which spun-off the easybits GmbH in 2025.

Oct 2018–Apr 2022 **Working Student Python Backend Engineering (20h/week)**, *MoBerries GmbH*, Berlin

Tech Stack: *Python, Django, JavaScript, React, PostgreSQL, MongoDB, RabbitMQ, Docker, Kubernetes, Terraform, AWS*

- Developed features for the internal backend. Improved test code coverage and maintained the project in a team of 3 developers.
- Starting 2020 due to down sizing I took over the lead of all Python projects, including some tasks for the matching algorithm.
- In 2021 supervised small team of one full time and one part time developer.
- At the end of 2021 I took over the Machine Learning part of the company and developed several features for the candidate-job matching algorithm. This team grew until 2022 to three full time developers.

Oct 2017–Aug 2018 **Working Student Software Development**, *PrintPeter GmbH*, Berlin

Tech Stack: *Python, Django, PostgreSQL, MySQL, SQLite, HTML, CSS*

Supported C-level, marketing and product teams with SQL queries, full-stack development and template automation.

Selected Projects

Factory REST API service for orchestrating GenAI tasks (Text, Image, Audio).
philsupertramp/factory

Label Ling Training recipes for producing production-grade NER models.
philsupertramp/label-ling

Chain Smoker Testing tool with a Go-based proxy to record and replay HTTP requests.
philsupertramp/chain-smoker

Teaching Experience

Summer 2023 **Lecturer**, *Berliner Hochschule für Technik*, Berlin

Taught "Introduction to Machine Learning" for the Embedded Systems studies.

Education

Graduated 2022 **B.Sc. in Mathematics**, *Berliner Hochschule für Technik*, Berlin

- **Thesis**: "Machine Learning Methods for Localization and Classification of Insects in Images" (part of the KInsecta research project).
- **Focus**: Applied Mathematics and Statistics.
- **Relevance**: Applied deep learning techniques for object detection on biological datasets, bridging theoretical math with practical ML implementation.