

# Dennis Thiessen

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## Skills

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**Programming:** Python, SQL, Typescript, API design and docs (Flask/FastAPI, Django, Swagger/OpenAPI), pytest.

**Data:** Data modeling, pipelines (ETL/ELT), testing, observability, SQL performance tuning (explain plans, indexes, partitions).

**Orchestration & Infra:** Airflow, Docker, Kubernetes, CI/CD, IaC, AWS (Athena, Glue, Redshift, S3, Lambda, Step Functions).

**Blockchain:** Running/using RPC APIs and public nodes; reading on-chain data via RPC/REST, basic Solidity, long-term Kraken client (since 2017).

**Bonus:** Kafka, Oracle, Teradata, REST fundamentals.

## Experience

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**(Staff) Data, Analytics & AI Engineer**, Swisscom – Bern, CH Oct 2023 – Present

- Owned ETL pipelines (Python, Kafka, SAP BODS) consuming Kafka topics and Oracle sources into Teradata.
- Migrated legacy pipelines to AWS (S3, Glue, Athena, Redshift, Lambda, Step Functions, Airflow).
- Requirements Engineering, Implementation and Operation of ETL pipelines and data products.

**(Senior) Data Analysis Engineer**, BOSCH Semiconductor – Dresden, DE Feb 2020 – Jan 2023

- Built data services in Python/Java over OracleDB and Hadoop/Impala to supply analysis teams.
- Containerized and orchestrated ML inference (Docker/K8s/Ansible) inside pipelines for 24/7 lines, reducing manual classification load.
- Application owner for analytics apps and upstream pipelines; delivered training, documentation, and SLOs for stable operations.

**Research Software Engineer**, Fraunhofer CML – Hamburg, DE Sep 2018 – Jan 2020

- Maintained SCEDAS (C/.NET/MS SQL) with heuristic optimization for crew scheduling; improved runtime and correctness with test coverage.
- Built microservices (Express.js, Java, Docker, SQLite) for research prototypes; introduced CI/CD with Jenkins and gated quality checks.

**DevOps Engineer**, Vizrt – Bergen, NO Jul 2017 – Aug 2018

- Python/C++ development for distributed video transcoding; created integration and unit tests for A/V streaming to improve reliability over releases.

**Software Engineer**, Generali – Hamburg, DE May 2015 – Jun 2017

- Python/C++ development for distributed backend components; implemented test automation and long-term maintainability practices.

## Education

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**Universität der Bundeswehr München** – Master of Engineering (M.Eng.) in Software Design and Software Engineering (Master's Thesis done at Tongji University, Shanghai, China) Sep 2013

**Universität der Bundeswehr München** – Bachelor of Engineering (B.Eng.) in Computer and Communication Technologies Sep 2012