

Philipp Theyssen

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Education

- 2021 - 2023** **MSc. Computer Science** University of Copenhagen (UCPH)
Specialization in Programming Languages and Systems
- 2017 - 2021** **BSc. Informatics**
Karlsruher Institut für Technologie (KIT)
Minor: Mathematics
- 2008 - 2017** **Abitur (1.5)**
Werner Heisenberg Gymnasium Bad Dürkheim

Work Experience

- 2023 - now** **Allianz Technology: Software Engineer**
Working on system for processing financial data of all Allianz operating entities.
- Fullstack development of SPA in Typescript using Angular and Azure Functions (Node.js)
- Integration with data warehouse based on Data Vault (Azure Synapse Analytics)
- Building pipelines for data transformation and orchestration using PySpark and SQL
- 2022** **UCPH: TA for Advanced Computer Systems Course**
Course on fundamental concepts in computer systems, distributed systems and database theory. Being a TA involved giving presentations and grading assignments.
- 2021 - 2022** **Student worker at Fraunhofer IEE Kassel**
Creating data pipelines for service data of wind turbines. Designing and implementing a system for OCR-based data extraction from invoices. Support on integrating it into customers ERP system, cutting manual processing time per invoice from 15 min to less than 1 min.
- 2021** **Internship at Fraunhofer IEE Kassel**
Analyzing, automatic processing and labeling of wind turbine maintenance data. Working on Machine Learning models for predictive maintenance. Developing ML models (SVM) for anomaly detection based on wind turbine status data.
- 2019 - 2020** **Sparkteams: Backend of time tracking application**
As a working student implemented an internal time tracking tool, using Kotlin, Micro-naut, jOOQ and PostgreSQL. Created feature for forecasting allocation of remaining work hours.
- 2019** **KIT: Tutor for Introductory Lecture to Informatics**
Teaching Assistant for formal introduction to computer science, this involved preparing slides weekly and giving a presentation to a group of 20 students.

Technical Skills

Using Daily	Typescript/JavaScript, Python, Azure, Linux
Comfortable	Java, SQL, Docker
Acquainted	C++/CUDA, C, Isabelle, C#
Want To Use	NixOS, Haskell, Rust

Academic Experience

Master Thesis	<i>Monitoring Safety Properties in Event-Driven Microservices</i> (thesis link , code link)
Bachelor Thesis	<i>Recursive Surrogate-Modeling for Stochastic Search</i> (thesis link , code link)

Activities

Volunteer Teacher at ReDI School (2024)

Teaching Backend Engineering with python at ReDI School of Digital Integration, a non-profit tech school providing migrants and marginalized locals free and equitable access to digital education.

About Me

I appreciate up-front communication, clean design, solid theoretical understanding, productive tooling and rigorous investigations. I especially like “applied theory”, which I think of as practical, real-world systems that are backed by robust/formal models. In my free time I love to do sports, and sometimes you can find me ice bathing in the Isar river.