Tjark Sievers

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Experience

altona diagnostics	Since 9/2025
Software Application Engineer	

PHYSnet, University of Hamburg	11/2021 - 3/2024
Student employee	
3S/HiTeC e.V.	5/2019 - 9/2021
IT support	
Musikakademie Alteglofsheim	9/2017 - 8/2018
Volunteer service in culture and education	

Education

M.Sc. Physics, University of Hamburg - Grade: passed with distinction	2025
• 4/2024 - 7/2024: Stay at Uppsala University	
B.Sc. Physics, University of Hamburg - Grade: 1.47	2022
Abitur, Werner-Heisenberg-Gymnasium - Grade: 1.5	2017

Projects

saboga (Python, FastAPI, MongoDB, React, TypeScript)
saboga.tjarksievers.de
- Full-stack web app for exploring data from BoardGameGeek
- Collects and analyzes data on 30,000 ranked games and 9 million historic user ratings
- Backend built with FastAPI and MongoDB for efficient data ingestion and querying
- Frontend built with React for data exploration

quant-met (Python)
github.com/Ruberhauptmann/quant-met
- Software package to study superconductivity in flat-band and multiband lattice systems
- Used to run parallelized parameter scans on the PHYSnet compute cluster
- Fully tested with extensive unit and regression tests

Skills

Languages: Python, C++, Bash
Web Development: Django, FastAPI, HTML/CSS, React
DevOps: Docker, GitLab CI/CD, GitHub Actions, Ansible, Grafana
Databases: MongoDB, MariaDB/MySQL