Johannes Michael Tauscher

Data Scientist and Technical Generalist

Data Scientist and Technical Generalist with a strong background in software engineering, machine learning, and data analysis. Experienced in building scalable systems and leading technical projects from concept to deployment.

j-tauscher@hotmail.com • linkedin.com/in/johannes-tauscher • github.com/thejonnyt • thejonnyt.github.io

PROFESSIONAL EXPERIENCE

Co-Founder & CTO
Raumdeuter GbR

Nov 2024 – Dec 2025

Leipzig, Germany

Building a modern communication and engagement platform for members and fans of clubs and associations to enable participation and engagement — a way to voice your opinion. I lead the technical development: from conceptualization and architecture to implementation of the product as an customer-deployed MVP with the help of a 4-person development team and coordinated external IT partners.

- Given an ambiguous initial problem configuration, I led the product ideation workshops to align team vision and product-solution-fit roadmap.
- Built engagement platform from $0 \rightarrow 1$ in less than 12 months on a €30k budget (likely resulting in approx. EUR 1.5M post-money valuation).
- Owned software architecture of the SaaS: Designed Microservices utilizing Docker Containerization (Distroless, Multistage Build) using Service Mesh patterns.
- Stabilized the frontend delivery pipeline: configured and optimized Next.js builds in a multi-workspace monorepo, and ensured reproducible builds across environments.
- Established DevEx/DevOps: CI/CD pipelines, Linting and Pre-commit Hooks, logging and testing across Next.js and Python services, cutting release friction and significantly improving onboarding speed for new hires.
- Owned system administration and networking: Microsoft tenant administration, SSL/TLS/DNS management and nginx routing configuration for services.
- Developed Machine Learning and (agentic) NLP pipelines in Python: Semantic Text Chunking + RAG vectorization using Qdrant, Sentiment Analysis, Topic Clustering and content summarization.
- Established GDPR-compliant data privacy and Privacy by Design practices.
- Owned end-to-end technical delivery and coordinated interns, contractors, and external partners; partnered closely with the frontend lead.

Technologies: Docker, Python, Bash, SpaCy, pytest, FastAPI, gRPC, Protocol Buffers, JavaScript, TypeScript, Next.js, React, Qdrant, RAG, MongoDB, MariaDB, SQL, LLMs, NLP/ML, nginx, Linux, CI/CD, GitHub, Docker Hub, git

Mathematics Teacher (Substitute)
Rahn Education (Private School)

Nov 2022 – Jun 2023

Leipzig, Germany

Responsible for the supervision of talented pupils (Groups of 4 to 8)

- Prepared customized university level material to challenge and spark interest for Mathematics.
- Initiated a pupil-led lecture series about Artificial Intelligence and its use cases.
- Taught basic principles of the mathematics behind 3D printing and coding.

Technologies: PowerPoint, Algebra, gcode, STL, MS Teams

Student Assistant

Child and Adolescent Psychiatry, Philipps University Marburg

May 2019 – Jan 2021

Marburg, Germany

Responsible for the validation and reproduction of earlier results of research as well as for programming Machine Learning algorithms in R to solve classification problems in the field of ASD diagnosis.

- My analysis results supported the findings of 3 peer-reviewed publications (listed in publications) and have been cited 70 times.
- Worked highly interdisciplinary with psychologists and medical doctors to understand the clinical background and implications of the data + explain the statistical methods to non-data-scientists.

Technologies: R, Markdown, HTML, Machine Learning, Decision Trees, Random Forests, Statistics, Interdisciplinary Collaboration

Intern, Data Analyst

Westphalia DataLab GmbH

Aug 2019 – Oct 2019

Münster, Germany

As a Data Analyst intern at Westphalia DataLab GmbH, I worked on a medical-diagnostics project combining 3D imaging and clinical data; developed and improved an experiment-tracking R/Shiny frontend and performed clinical-data analysis with Python and R.

- Worked out and enhanced existing features for an experiment-tracking R/Shiny frontend to improve researcher workflow and usability
- Analyzed 3D-image and clinical datasets with Python and R to derive actionable diagnostic insights
- Integrated and managed project data using MongoDB and PostgreSQL and maintained code/versioning with Git

Technologies: Python, PyTorch, Convolutional Neural Networks, R, R Shiny, MongoDB, PostgreSQL, SQL, Git

EDUCATION

M.Sc Data Science, Faculty of Mathematics and Computer Science

Leipzig University

Apr 2021 – Oct 2024

Leipzig, Germany

- Overall Score: 1.7, personal focus on advanced Statistics, Machine Learning, Data Privacy, LLMs
- Master's Thesis (1.1): Neural Machine Translation with Transformers - Leveraging the Pivot Technique for Low-Resource Language Pairs

B.Sc. Data Science, Faculty of Mathematics and Computer Science

Philipps University Marburg

Oct 2017 – Mar 2021

Marburg, Germany

- Bachelor's Thesis (1.7): Multidimensional Data Exploration and Visualization of Membrane Proteins Attributes
- Curriculum focusses on Mathematics, Statistics, Computer Science and Programming

B.A. Marketing and Technical Business Administration

HAW Hamburg

Mar 2012 – Oct 2017

Hamburg, Germany

- Bachelor's Thesis (1.7): Use of Linear Discriminant Analysis as an alternative to tree analysis - methodological evaluation and exemplary implementation using a survey on the success of movies.
- Curriculum focusses on Marketing, Engineering and Business Administration

PUBLICATIONS

"Phenotypic differences between female and male individuals with suspicion of ASD"
Sanna Stroth, Johannes Tauscher, Nicole Beyer, Charlotte Küpper, Luise Poustka, Stefan Roepke, Veit Roessner, Dominik Heider, Inge Kamp-Becker
Molecular Autism, 13 (1) • DOI: 10.1186/s13229-022-00491-9 • 16 citations   2022

"Is the Combination of ADOS and ADI-R Necessary to Classify ASD? Rethinking the "Gold Standard" in Diagnosing ASD"
Sanna Stroth, Johannes Tauscher, Nicole Beyer, Charlotte Küpper, Luise Poustka, Stefan Roepke, Veit Roessner, Dominik Heider, Inge Kamp-Becker
Frontiers of Psychiatry, 12 • DOI: 10.3389/fpsyt.2021.727308 • 45 citations   2021

"Identification of the most indicative and discriminative features from diagnostic instruments for children with autism"
Sanna Stroth, Johannes Tauscher, Nicole Wolff, Charlotte Küpper, Luise Poustka, Stefan Roepke, Veit Roessner, Dominik Heider, Inge Kamp-Becker
JCPP Advances, Volume 1, Issue 2 • DOI: 10.1002/jcv2.12023 • 9 citations   2021

TECHNICAL SKILLS

Analysis, ML & AI: LLMs, NLP/ML, Machine Learning, SPSS, Statistics

Backend & DevOps: Docker, gRPC, MongoDB, MariaDB, PostgreSQL, nginx, CI/CD

Programming Languages: Java, Python, JavaScript, TypeScript, R, Bash, SQL, noSQL, Qdrant

Tools & Systems: Git, Linux, Excel, Powerpoint, MS Office, MS Teams, Miro, Business Model Canvas, Lean Startup, VSCode, LaTeX

Web & Creative: Next.js, React, R Shiny, Adobe Photoshop, HTML, CSS

PROGRAMS & AWARDS

exist Startup Grant   2024-2025

exist   Leipzig, Germany

Developed and launched a startup idea as part of the exist scholarship program funded by the German Federal Ministry for Economic Affairs and Climate Action (BMWK).

- Winner of the Impulse Summit 2025.
- Winner of the TGFS Technologiegründerfonds Sachsen Award as part of the HHL Digitale Space Program 2025.
- Winner of TechStart Dresden 2025.
- Top 5 out of 150 finalists at Samsung: Solve for Tomorrow 2025.
- Visited selected business seminars on diverse topics from Leipzig University and Leipzig Graduate School of Management (HHL).

DataFest 24h Hackathon   2019

DataFest Mannheim   Mannheim, Germany

Developed a collision detection algorithm and visualization for data from a season of women's rugby.

- Won 3rd place out of 19 teams for both best data insight and best data visualization.