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German



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Gaisbergstr. 18
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Germany

Marcel Thomas Rosier

About Me Ambitious, detail-oriented computer scientist with experience in software development, research, machine learning, and DevOps.

Education

Apr 2022 - Apr 2025, Technical University of Munich (TUM)

M.Sc. in Computer Science

- Passed with high distinction (1.1) | Top 6%
- Focus on machine learning and data analysis
- Master's Thesis: Wavelength Optimization for Hyperspectral Monitoring of Brain Tissue

Jan 2023 - Jul 2023, IT University of Copenhagen

Exchange semester: 12/12 GPA

- Active Member of AITU (Student AI organisation)
- Advanced Machine Learning for Data Science
- Big Data Processes
- Frameworks and Architectures for the Web

2018 - 2022, Technical University of Munich (TUM)

B.Sc. in Computer Science

- Passed with distinction (1.4) | Top 10%
- Minor (Anwendungsfach): Medicine
- Bachelor's Thesis: Image retrieval based brain tumor modeling

2010 - 2018, Gisela-Gymnasium, Munich

Abitur (1.0) | Top 1%

Experience

Since Oct 2024, Software & Research, UZH

Internship at the Institute for Quantitative Biomedicine

- Developing tools for Biomedical Image Analysis with a focus on Brain MRI

Oct 2023 - Sep 2024, Software & Research, Helmholtz

Working Student

- Core developer of the BrainLesion packages: Provided brain tumor preprocessing, segmentation, and growth modeling tools to researchers and clinicians.

Oct 2023 - Apr 2024, FullStack Developer, Cocrafter (YC W24)

- Core dev team member of Y-Combinator startup

Sep 2022 - Dec 2022, Software/ DevOps Engineer, TraceTronic GmbH

Internship

- Developed infrastructure for automated testing in the cloud using AWS
- Set up a CI env for automated testing utilizing ZuulCI

Oct 2020 - Jul 2022, Backend Developer, VisionHealth GmbH

Working Student

- Backend development with Django, Docker & PostgreSQL
- DevOps & cyber-security tasks

Skills

Languages

- German (Native)
- English (C1)

Tools

- | | | |
|----------|-----------|----------|
| ○ Python | ○ PyTorch | ○ Django |
| ○ PyTest | ○ JS/TS | ○ React |
| ○ Linux | ○ Docker | ○ Git |

Communication

- Poster Presentation at *Machine Learning for Health* 2022 in New Orleans

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Publications

[A for-loop is all you need. For solving the inverse problem in the case of personalized tumor growth modeling](#)

Proceedings of the 2nd Machine Learning for Health symposium, PMLR 193:566-577, 2022, 28. Nov

Awards

[2024, *best.in.tum*, Technical University of Munich \(TUM\)](#)

The School of Computation, Information and Technology at TUM promotes the best two percent of its informatics students by the *best.in.tum* program.

[2022/23 & 2023/24, *Deutschlandstipendium*, Technical University of Munich \(TUM\)](#)
Scholarship

[2022, ML4H Travel Award](#)

Awarded travel funding to present my work at the Machine Learning for Health (ML4H) symposium 2022 in New Orleans.

Interests

Personal

- Guitar
- Swimming
- Coding
- Photography