Noah Schlenker

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Education

M.Sc. Mathmatics in Data Science   *Oct 2025 – Oct 2027*
Admitted   *Technical University of Munich*

B.Sc. Informatik   *Oct 2021 – May 2025*
GPA: 3.6 (US), 1.6 (GER) — Minor: Mathematics   *Technical University of Munich*

High school diploma (Abitur)   *Sep 2013 – Jul 2021*
GPA: 3.9 (US), 1.1 (GER)   *IKG Leinfelden*

Work / Research Experience

Bachelor's thesis   *Oct 2024 – Feb 2025*
Chair of Scientific Computing, TUM — Grade 100%   *Munich, GER*

- Research on node-level parallelization of high-fidelity molecular dynamics simulations
- Efficient framework on multi-node simulator, demonstrating novel parallelization methods

Tech Stack: C++, C, Slurm linux cluster, Paraview, MPI   —   *Links*: Thesis

Research Intern at "AI Factory Bavaria"   *Feb 2024 – Aug 2024*
Chair of Robotics, Artificial Intelligence and Real-Time Systems, TUM   *Munich, GER*

- Research on task and motion planning of mobile base + manipulator robots
- ROS-package for combined motion planning yielding up to double motion efficiency

Tech Stack: ROS, C++, MoveIt, Rviz, Ubuntu   —   *Links*: AI Factory Bavaria

Software Engineer Working Student   *Dec 2022 – Jul 2023*
Entrix Energy   *Munich, GER*

- Architecting optimized algo-testing service using historic energy market behaviour
- Facilitated revenue forecasting and optimized development of the trading algorithm

Tech Stack: AWS, Python, Typescript   —   *Links*: Entrix Energy

Extracurricular Activities

Project: Quantitive Trading using ML models   *Apr 2025 - Present*

- Fetch data from Bybit API, retrieve features, train models and backtest / live mock trade strategies
- Trained transformer model on predicting midprice with 75% trend accuracy

Tech Stack: Pytorch, Numpy, Bybit   —   *Links*: GitHub

Project: Pytorch toolkit   *Jul 2025 - Present*

- Python package for seamless training, evaluation and visualization using Pytorch
- Significant code reduction and efficient tuning

Tech Stack: Pytorch, Numpy   —   *Links*: GitHub

Network / System Administrator   *Apr 2024 - Present*
Voluntary administrator for student dormitory   *Munich, GER*

- Implementing / maintaining services within the dormitory: dorm management sofware, cloud storage and WPAs

Tech Stack: Proxmox, VLAN, Pfsense, Wireguard, Debian   —   *Links*: Dormitory

Leader and Organizer   *Dec 2024*
30th Kobe International Students' Symposium   *Osaka, JPN*

- Planned / implemented bilingual (JP and EN) symposium aimed at at developing leadership and intercultural competency, hosted by Kobe University

Links: KISS (Translated), Course description

Hackatum 2023   *Jun 2023*
Invited to discuss solution at Check24 HQ   *Munich, GER*

- Developed a performance enhanced distance and rating based craftsman comparison algorithm

Tech Stack: C++, Redis, NextJS — *Links*: GitHub

START Hack 2023   *Mar 2023*
Europe-wide event with 1500 participants   *St. Gallen, SWZ*

- Developed an user-experience centered android application for extending the mordern use of broadcast TV (Sunrise Challenge)
- Core idea: Enhance user interaction with the platfrom and other users to enrich the user experience, whilst enabling personalized ads for increased revenue

Tech Stack: Go, SQLite, React Native — *Links*: Demo Video, GitHub

Skills

Programming Languages	C++, Python, C, Java, Dart, Go, JS, TS, OCaml
Expertise and Tools	Machine Learning, Optimization, AWS, Design Patterns, Git, OS, DBMS, Numeric Programming, Energy Sector
Languages	Fluent in German, Japanese and English