# **Noah Schlenker**

in noah-schlenker

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noahpy

#### **Education**

**B.Sc.** Informatik

Bachelor's degree program

GPA: 3.6 (US), 1.6 (GER) Minor: Mathematics Technical University of Munich Oct 2021 – Mar 2025

Abitur

Highschool diploma

Major: Physics (15/15), Mathematics (14/15), English (13/15)

GPA: 3.9 (US), 1.1 (GER)

Immanuel-Kant-Gymnasium Leinfelden Sep 2013 – Jul 2021

# Work / Research Experience

## **Chair of Scientific Computing, TUM**

Bachelor's thesis, Grade: 100% (US) / 1.0 (GER)

Oct 2024 – Feb 2025 Munich, GER

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

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

# Chair of Robotics, Artificial Intelligence and Real-Time Systems, TUM

Feb 2024 – Aug 2024 Munich, GER

Research Intern at "AI Factory Bavaria"

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

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

Entrix Energy Dec 2022 – Jul 2023

Software Engineer Working Student

Munich, GER

- Architecting and implementing a renewed algo-testing service using historic energy market behaviour
- Facilitating revenue forecasting and optimizing the development of the trading algorithm
- Achieved tenfold reduction in runtime compared to the previous service

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

### **Extracurricular Activities**

### **Network / System Administrator**

Oct 2024 - Present

Voluntary administrator for student dormitory

Munich, GER

• Implementing and managing services provided within the dormitory, such as a dorm management sofware, cloud storage service and WPAs

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

### 30th Kobe International Students' Symposium

Dec 2024

Leader and Organizer

Osaka, JPN

- Planned, prepared and implemented bilingual (JP and EN) symposium aimed at at developing leadership and intercultural competency, hosted by Kobe University
- Held a weekly 90-minute preparation course of the symposium, consisting of 30 participants from 16 countries to debate and collaborate on its organization

Links: KISS (Translated), Course description

Hackatum 2023 Mar 2023

Invited to discuss solution at Check24 HQ

St. Gallen, SWZ

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

Tech Stack: C++, Redis, NextJS — Links: Repo

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**

**Expertise and Tools** 

C++, Python, C, Java, Dart, Go, JS, TS, OCaml **Programming Languages** 

Linux, Optimization, AWS, Design Patterns, Git, OS, DBMS, Numeric Program-

ming, Energy Sector, Docker

Languages Fluent in German, Japanese and English