# **Noah Schlenker**

in noah-schlenker

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noahpy

### **Education**

M.Sc. Mathmatics in Data Science

Admitted

Oct 2025 – Oct 2027

Technical University of Munich

**B.Sc. Informatics** 

GPA: 3.6 (US), 1.6 (GER) — Minor: Mathematics

Oct 2021 – May 2025 Technical University of Munich

High school diploma (Abitur)

GPA: 3.9 (US), 1.1 (GER)

Sep 2013 – Jul 2021 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 efficient task and motion planning of mobile base + manipulator robots
- Developed framework for combinating variety of motion planning algorithms, doubling motion efficiency

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

## **Software Engineer Working Student**

Entrix Energy

Dec 2022 – Jul 2023

Munich, GER

- Architecting optimized algo-testing service using historic energy market data
- Developed revenue forecasting and streamlining development of trading algorithm

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

#### **Extracurricular Activities**

# Project: Experimental Quantitive Trading using ML models

Apr 2025 - Present

- Fetch data from Bybit API, retrieve features, train models and backtest / mock trade strategies on live data
- Short term trend-predicting model with 75% trend accuracy on CAKEUSDT Perpetual

Tech Stack: Pytorch, Numpy, Bybit - Links: GitHub

# **Project: Personal Pytorch Toolkit**

Jul 2025 - Present

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

Tech Stack: Pytorch, Numpy — Links: GitHub

## **Network / System Administrator**

Apr 2024 - Present

• Implementing / maintaining services within dormitory: dorm management sofware, cloud storage, WPAs

## **Skills**

Programming Languages
Expertise and Tools

C++, Python, C, Java, Dart, Go, JS, TS, OCaml

Machine Learning, Optimization, AWS, Design Patterns, Probability Theory,

Linear Algebra, DBMS, Numeric Programming, Energy Sector

Fluent in German, Japanese and English

References available upon request

Languages