

Ole Petersen

Curriculum vitae



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<https://ole-petersen.vercel.app>

EDUCATION

2023-10 – 2025-10

Technical University of Munich

Master of Science Computational Science and Engineering

Score:

2020-10 – 2023-10

Technical University of Munich

Bachelor of Science Engineering Science

Score: 1.4 (1.0-5.0 scale)

2022-09 – 2023-01

University of Exeter

Term abroad

Score: 1.3 (1.0-5.0 scale)

2009-06 – 2020-04

Gymnasium Mainz-Oberstadt

Gymnasium

Score: 1.0 (1.0-6.0 scale)

SKILLS

ADVANCED Golang, Typescript

INTERMEDIATE C++, Julia, Java, Python, PyTorch, TensorFlow, Kubernetes, Docker, Git, VSCode, SQL, Grafana, Prometheus, Humio, Linux, React/NextJS

BEGINNER Rust, Terraform, Azure

LANGUAGES German, English, French, Spanish

- Working with code from multiple teams in a variety of programming languages
- Building/improving internal tools, CI/CD pipelines, IaC, observability dashboards and much more

2017-01 – 2020-09

Tutor

Tuition in Mathematics, Physics, IT and English

Professional tuition for students from school and university

2018-01 – 2018-02

Intern

DLR Braunschweig

Student internship, getting to know the basics of CFD

2023-04 – NOW

Tutor

Studierendenwerk München

Organization of student events in my dormitory

2021-02 – NOW

Founder

TUM

Founding of a student group developing a platform that allows students to find their next student group

2020-05 – 2020-06

Voluntary tutor in old school

Gymnasium Mainz-Oberstadt

Voluntary support of mathematics and IT courses in my old school, helping out to overcome the difficulties of covid restrictions

2020-11 – NOW

Jury member

Bundeswettbewerb Informatik

Being part of the evaluation team for the Bundeswettbewerb Informatik twice a year (including a small compensation)

JOBS AND INTERNSHIPS

2020-09 – 2023-09

Working Student Platform Engineering

QAware

Building and maintaining the backend platform for the Telekom Smart Speaker

- Getting hands-on experience maintaining a scalable Cloud-Native platform

AWARDS

2023-10

relAI Scholarship holder

Konrad Zuse School of Excellence in Reliable AI

I was chosen to be a scholar of the relAI Scholarship, supported by DAAD

2023-06
Check24 GenDev Scholarship holder
Check24

I was chosen to be a scholar of the Check24 Gen-Dev Scholarship.

2021-09
Deutschlandstipendium holder
TUM

I was chosen to be a scholar of the Deutschlandstipendium.

2020-09
Awardee of the final run of the 38th BWInf
Bundeswettbewerb Informatik

Got awarded in the final run of the 38th Bundeswettbewerb Informatik, a national competition for high school students in Germany

2020-06
National mathematics Olympiad Germany
Mathematik-Olympiaden e.V.

Participation in the online version of the national mathematics olympiad

2018-06
National mathematics Olympiad Germany
Mathematik-Olympiaden e.V.

Participation in the national mathematics olympiad

2014
Jugend trainiert Mathematik
Bundesweite Mathematikwettbewerbe

Participation in a program to train young mathematicians, consisting of two seminars per year and monthly exercise sheets

PERSONAL PROJECTS

2022-10 – NOW
Rust, Data Science, Rust, Data Integration
Probabilistic data integration engine

Development of a data integration that can work with probabilistic data sources in Rust

2021-06 – NOW
React, Postgresql, Docker, Kubernetes
Huddle

Founding of a student group developing a platform that allows students to find their next student group

2021-09 – 2021-09
Drones, Auctions, Decentralized Systems
Collaborative Drone Interactions

Participation in the Decentralized Drone Interactions Team of the Ferienakademie, investigating the decentralized deployment of drones with a focus on automated auctions

2020-12 – 2021-01
Simulation, Probability Theory, Web App
Covid Simulation

Monte-Carlo estimation of covid infection risks based on contacts

2018-06 – 2020-06
CAD, Aerospace, Engineering
H7-Jet

Design of a flying-wing radio-controlled plane from the ground up

2019-07 – 2020-06
Aerospace, Engineering, C++, Arduino, PlatformIO
Flight Data Telemetry for RC Airplanes

Development of hardware and software necessary to get live data from an RC plane to a laptop

2020-06 – 2020-08
Python, Tensorflow, Keras, Aerospace, Engineering
AI-Autopilot

Development of an AI-based autopilot prototype in a team of four

2019-09 – 2020-06
C++, OpenCL, WebAssembly, Emscripten, Javascript, Neural Networks
ANN-Modules

Development of a custom library to flexibly build neural networks; experimenting with GPU acceleration; porting to WebAssembly

2020-06 – 2020-07
C++, Arduino, PlatformIO, Engineering
SPMSatRx

Arduino/PlatformIO library to interface Spektrum satellite receivers

2018-07 – 2019-07
Java, Simulation, Eclipse
Economy Simulation

Development of a simulation of a simple economy, modeling the production and the consumption of goods, special focus on a custom PriorityQueue

2018 – 2020

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Heidelberger Life-Science Lab

Participation in HLST, a program encouraging young students to do their own research projects

OTHER INTERESTS

- Outdoor running
- Camping
- Building RC Aircraft
- Reading tech stories