

# Ole Petersen

## Curriculum vitae



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

## EDUCATION

2020-10 – NOW

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: 1.4 (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

## JOBS AND INTERNSHIPS

2020-09 – NOW

Working Student Platform Engineering

*QAware*

Building and maintaining the backend platform for the Telekom Smart Speaker

- Working with code from multiple teams in a variety of programming languages

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

- Building/improving internal tools, CI/CD pipelines, IaC, observability dashboards, etc.

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

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)

## AWARDS

2021-09

Deutschlandstipendium

*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

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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

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 HLSL, a program encouraging young students to do their own research projects

## OTHER INTERESTS

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