

Ole Petersen

Curriculum vitae

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EDUCATION

2020-10 – NOW
Technical University of Munich
Bachelor of Science Engineering Science
Score: 1.4

2009-06 – 2020-04
Gymnasium Mainz-Oberstadt
Gymnasium
Score: 1.0

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 DevOps
QAware
Solving Cloud Native problems in a team for Telekom Magenta Voice
- Implemented automated documentation to make it easier for developers to work on the platform
- Improved observability
- Worked on automation tasks

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
Gymnasia 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

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

– NOW

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Heidelberger Life-Science Lab

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

OTHER INTERESTS

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