

MAXIMILIAN FRÜHAUF

Munich, Germany Contact: max@maxfruehauf.com maxfruehauf.com

EDUCATION

Technical University of Munich (TUM)

Bachelor of Computer Science with minor in Mathematics

German Average 1.7/5.0; GPA: 3.3/4.0; **Top 10%**

Relevant Coursework: Motion Planning for Autonomous Vehicles, Linear and Convex Optimization, Modeling & Simulation, Computer Networks, Computer Architecture, Linear Algebra, Calculus

Munich, Germany

Oct 2017 - Mar 2021

National University of Singapore (NUS)

Exchange semester in English speaking Singapore. GPA: 3.4/4.0

Singapore

Aug 2019 - Dec 2019

Hochschule der Medien (HdM)

Started Bachelor Degree in Media Informatics, switched after one year to TUM

German Average 1.1/5.0; GPA: 3.9/4.0

Stuttgart, Germany

Oct 2016 - Oct 2017

EXPERIENCE

Research Assistant (HiWi)

Cyber-Physical Systems Group, TUM

Oct 2020 - Mar 2021

- Further extended SUMO (Simulation Of Urban Mobility) and CommonRoad integration, an autonomous vehicle testing framework by TUM Cyber-Physical Systems Group.
- Assured software quality. Worked with novel, large scale research systems.

Naklar.io - Online Tutoring for high school students

Extra curricular project with other TUM students

Mar 2020 - Jul 2020

- Built platform allowing students to ask questions via video chat and get matched to their perfect tutor naklar.io.
- Developed UI/UX, deployment and video chat (BigBlueButton) integration using web technologies.

LEADERSHIP

- **Academic Tutor, TUM** Gave tutorials to Computer Science students in first and third semester on Computer Networks, Computer Architecture & Fundamentals of Databases.
- **Participant of Ferienakademie, TUM** Two week extra-curricular research course on Agile Aircraft Design sponsored by Airbus. Used TensorFlow Object Detection to detect humans in drone images and segmented Terrain types. Utilized SCRUM and Agile team management techniques.
- **Academic Tutor, HdM** Gave tutorials to Media Computer Science students in first semester on Digital Media Technologies & Introduction to Software Development I.

SKILLS

Languages

German (native), English (C2), French (B1) & Mandarin Chinese (A2.2 / HSK 3)

Programming

Python, Java, C/C++, JavaScript, HTML, SQL, OCaml, L^AT_EX, x86/64 ASM, Go

Standardized Tests

TOEFL: 117/120, GRE General: Verbal: 162/170 Quantitative: 161/170 Writing: 5.0/6.0

HONORS AND ACHIEVEMENTS

TUM Informatics Award for the Best Teaching (*Preis für die beste Lehre*) twice for tutoring students (2020).

German Academic Scholarship (*Deutschlandstipendium*) for high-achieving & committed students 2018 & 2019.

EXTRA-CIRRICULAR

Active helper in festivals organized by the students association of TUM.

Ball room dancer and road cyclist

Took part in 3-Day seminar, teaching how to tutor university students