



Simon Sure

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SKILLS


Languages: Java, Rust, Python, JavaScript, Verilog, SQL, HTML

Technologies: LLMs, Machine Learning, Git, Docker, Google Cloud Platform, Azure, FPGAs, Networking (Ubiquiti)


Frameworks: React, OpenCV, Tensorflow, Flask, ROS2

EDUCATION

BSc in Computer Science | 09/2022 - 08/2025

- ETH Zurich (Swiss Federal Institute of Technology)  | Zurich, Switzerland
- Grade: 5.9/6
- Focus Courses: Algorithms, Data Structures, Parallel Programming, Computer Architecture
- Other Courses: Discrete Mathematics, Probability, Linear Algebra, Calculus

Foreign Language Correspondent English | 12/2018 - 02/2021

- Chamber of Industry and Commerce  | Dortmund, Germany

WORK EXPERIENCE

ETH Zurich, Switzerland | Teaching Assistant for Discrete Mathematics | 09/2023 - Present

- Teaching \approx 20 students, collaboration with fellow TAs, grading assignments

Freelancer | Web & IT Services | 01/2022 - Present




- Maintaining a Linux web server, administrating a website (adding pages & content), \approx 2.900 monthly users

PROJECTS

FLIZAR, Personalized AI-Powered Exam Preparation | 05/2023 - Present

- Co-Founder (team of 4) & Developer (LLMs, Python backend, React frontend)
- Pilot projects, expecting to reach 5.000 students by the end of the year

Regular Hackathon Participant | 2022 - Present

- Leading back end development within variable teams
- @msgSystems  (winner), @Optiver, @KFW , @ETHZ (VIScon) , and more

Agricultural Robot Development | 2019 - 2023

- Built custom convolutional neural net for vision, odometry, navigation in crop fields & robot simulation
- Technologies: C++, Python, ROS, Gazebo, Edge Computing, Vision

Interactive Video Production | 08/2021 - 06/2022

- Implemented an interactive web experience (user chooses video flow) using Eko and React for \approx 3.000 users

FloRaWAN, Urban Flora Monitoring System | 08/2020 - 06/2022

- Enabling simplification of plant maintenance by the parks department (covering 14.000 trees)
- Radio (LoRaWAN), sensor units (ESP32, C), data analysis and visualization (InfluxDB, Node-RED, Grafana)

AWARDS


Scholarship (top 0.5 %) | German Academic Scholarship Foundation (Studienstiftung des Deutschen Volkes)

5th Place Nationally (top 0.1 %) | National Youth Research Competition

Konrad Zuse Youth Award in Computer Science | Eduard-Rhein Foundation

Reached State Competition (top 4 %) | Mathematics Olympiad | 2015, 2018, 2020, 2022

VOLUNTEER EXPERIENCE

ETHZ CS Student Association | Semester Spokesperson (evaluating courses, representing students with professors), Computer Application Team (implementing features for internal tools such as Exam Collection ) , Events

German Red Cross | Paramedic (providing emergency medical services at events), Civil Protection (supporting in case of public dangers, evacuation and care during large-scale emergencies)

High-School Student Council | Chair and Treasurer (representing students with the faculty & principal, joining school conferences)

LANGUAGES

German (Native), English (Proficient)