Simon Sure

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SKILLS

Languages: C, C++, Java, Python, JavaScript, Verilog, HTML
Technologies: Docker, Google Cloud Platform, SLAM, Azure, FPGAs, Networking (Ubiquiti), Git, (Postgre)SQL
Frameworks: React, OpenCV, Tensorflow, Flask, ROS2

EDUCATION

BSc in Computer Science | 09/2022 - 08/2025
- ETH Zurich (Swiss Federal Institute of Technology) ⇪ | Zurich, Switzerland
- Rolling Average Grade: 5.94/6
- Focus Courses: Algorithms, Data Structures, Parallel Programming, Computer Architecture, Numerical Methods
- Other Corses: Discrete Mathematics, Probability, Linear Algebra, Calculus

Foreign Language Correspondent English | 12/2018 - 02/2021
- Chamber of Industry and Commerce ⇪ | Dortmund, Germany

WORK EXPERIENCE

Optiver, Netherlands (Upcoming) | Software Engineering Intern | 07/2024 - 08/2024
NVIDIA, Finland | Systems Programming Intern | 02/2024 - 06/2024
ETH Zurich, Switzerland | Teaching Assistant for Discrete Mathematics | 09/2023 - 02/2024
- Teaching ≈ 30 students, collaboration with fellow TAs, grading assignments, grading exam

Freelancer, Germany | Web & IT Services | 01/2022 - Present
- Lead administration of a linux web server, ensuring maximum uptime & security
- Proactively manage and enhance the dynamic website, effective site management, ≈ 2.900 monthly users

PROJECTS

Regular Hackathon Participant/Winner | 2022 - Present
- Leading back end development within variable teams & contributing to React frontends
- @Collabothon/RedHat (FinTech winner) ⇪, @msgSystems ⇪ (winner), @Junction2023 ⇪, @Optiver, @KFW ⇪, @ETHZ ⇪, and more

Agricultural Robot Development ⇪ | 2019 - 2023
- Developed an innovative robot, addressing pesticide use and labor challenges in agriculture
- Collaborated with farmers for real-world testing and validation
- Built custom convolutional neural net for vision, odometry, navigation in crop fields & robot simulation
- Technologies: C++, Python, ROS(2), Gazebo, Vision & prioritizing efficient performance for real-time edge application

FLIZAR, Personalized AI-Powered Exam Preparation ⇪ | 05/2023 - 01/2024
- Recognized struggle of students to efficiently prepare for exams, conducting basic market research, leading the implementation, communicating with various stakeholders (students, educators, publishers)
- Initiated several pilot projects with educators (professors, teachers)
- Development Lead (LLM integration, Python backend, React frontend)

FloRaWAN, Urban Flora Monitoring System | 08/2020 - 06/2022
- Discovered impact of climate change on urban flora, developed strategy to combat risks with stakeholders (municipal authorities, local companies, residents), obtained budget and drove implementation
- Enabling simplification of plant maintenance & care by the parks department (covering 14.000 trees)
- Radio (LoRaWAN), sensor units (ESP32, C), data analysis and visualization (InfluxDB, Node-RED, Grafana)

Interactive Video Production ⇪ | 08/2021 - 06/2022
- Realized burden for students to choose high school during the covid pandemic, initiated project, secured funding, got advanced unmanned areal vehicle certification, planned & produced the video shooting and editing
- Implemented an interactive web experience (user chooses video flow) using Eko and React, reaching > 3.000 users

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

VOLUNTEER EXPERIENCE

Goole Developer Student Club | Core Team Member, Event Organization, Team Collaboration, Community Building, Mentorship & Support (mentoring and supporting students, facilitating their growth), Corporate Engagement
VIS - ETHZ CS Student Association | Semester Spokesperson (evaluating courses, representing students with professors)