# Zihan Liu

**EDUCATION** 

XIAMEN UNIVERSITY | September 2018- June 2022

Bachelor of Electrical and Computer Engineering (Hons)

UNIVERSITY OF ZURICH | September 2022 - expected 2025

Informatics(Major in Data Science minor in Information System)

**SKILLS** 

Computer Typescript, Javascript, React, Angular, Spring, PostgreSQL, C, Python, Java, R, MATLAB, Linux

Language Chinese(Native), English(Fluent), German(learning)

**PROJECT** 

**GAMING WEBSITE** 

February 2024 - Present

Full-Stack Developer

UZH Dynamic and Distributed Information Systems Group

- Developed a comprehensive gaming website using React framework
- Designed the front-end using HTML, CSS, and SCSS, creating an engaging and responsive user interface.
- Programmed the backend using Java with the Spring framework, integrating MongoDB for data management.
- Deployed the entire application by Google Cloud.

CITIZENOS WEBSITE

November 2023 - Present

Full-Stack Developer

UZH Zurich Empirical Software Engineering Team

- Contributed to the development of CitizenOS, a civic engagement platform focusing on the promotion of discussions on civic topics.
- Enhanced both front-end and back-end components using Angular for the front-end and Node.js for the back-end, with Post-greSQL@15 managing database operations.
- Implemented features for data statistics visualization and web page feedback applications to facilitate effective civic discussions.

#### EXPERIENCE

# TESLA (GREATER CHINA INNOVATION R&D CENTER)

Nov.2021-August.2022

Shanghai, China

- Low Voltage (LV) Service Engineer
- · Responsible for the developing of automatic diagnosis script of low voltage system by using python
- Focus on analysis of some failure parts mostly vehicle controllers of Model 3 and Model Y
- Development of automatic test bench for LV controlling system
- Assist in the development and validation of new products
- Vehicle data acquisition and data analysis
- Maintain and write Model 3, Y, X service manual web page

### HIKVISION (AN IOT PROVIDER)

Aug.2021-Nov.2021

Hangzhou, China

- Autonomous Driving System Engineer Assistant
- Engaged in the design and development of automated parking system, completed functional and cost analysis of hardware devices like camera, radar sensor, etc.
- Assisted in designing PCB reference, visual calibration, and vehicle calibration
- Programmed the system for detecting the surrounding environment, tested the result of designed system like testing the generated 3D reversing vehicle photo
- · Learned principles of camera signal transmission, completed dither testing using high-speed bandwidth oscilloscope
- · Researched basic parameters of eye pattern, tested the dither of AVM video transmission path
- Performed condition monitoring and version updates using Serial and CAN tools
- Wrote Linux SH script to achieve switch control of signal output from control devices

## **PUBLICATION**

Yecong Cao; Congzhe Gao; **Zihan Liu**; Jing Liu; Mingshi Liu, "Research on Scheduling Strategy of Electric Vehicle Fast Charging Station Combined with Photovoltaic Generation and Energy Storage", 2021 3rd International Conference on Information Science, Electrical and Automation Engineering