Zihan Liu

Male, 04/07/2000   **Nationality: Chinese**
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Profile

Graduate student at Volvo Cars, optimizing and automating vehicle software testing. Previously interned at Tesla R&D Center. Proficient in Python, Java and machine learning.

Projects

StartSEOUp   **[Live Site]**

Co-founded a web platform offering SEO services to startups. Full-stack development with React and FastAPI.

AI Solution Konsult Sweden(ongoing)   **[Live Site]**

Launched an AI consulting company providing integration services. Developed frontend/backend with Next.js and Python.

Work Experience

Volvo Cars, Sweden   **Feb 2025 – Present**

Master Thesis Worker

- Conducted fine-tuning of large language models (LLMs)
- Implemented a RAG-based AI system to assist in automotive requirement and test sequence integration
- Developed pipelines for multimodal data processing and training data generation

Volvo Cars, Sweden   **Sep 2024 – Feb 2025**

Software Developer Intern

- Developed and maintained CI tools in software testing
- Automated ECU validation routines and enhanced system-level tests
- Worked on DHU and CSD modules using Appium, Simulink, and SomeIP

Tesla R&D Center, China   **Oct 2021 – Jun 2022**

Low-voltage Service Engineer Intern

- Developed diagnostic scripts for low-voltage (LV) systems using Python
- Analyzed controller failures in Model 3/Y and designed a test bench for LV control verification

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Core Skills

Languages: Python, JavaScript, C, CAPL, HTML, Typescript, SQL
Frameworks/Tools: Angular, React, Spring, FastAPI, Appium, SomeIP
Platforms/Cloud: Docker, MongoDB, Azure, Google Cloud, Git
AI/ML: Fine-tuning (LLMs), Retrieval-Augmented Generation (RAG), Multimodal Processing

Education

University of Zurich   **Sep 2022 – Present**

Master of Science in Data Science
Minor: Banking and Finance

Xiamen University Malaysia   **Sep 2018 – Jun 2022**

Bachelor of Science in Electrical and Computer Engineering

Languages

Languages: English (IELTS 7.0, GRE: 322), German (A1), Chinese