Yuanhui LIN

✉ hazellyuanh@gmail.com

📞 (+41) 0764780427

📍 Lausanne, Switzerland

📄 Permit B

Profile

Software developer with experience working in multicultural teams, known as a collaborative team player and fast learner. Possesses a strong solution-oriented mindset with hands-on project experience and a genuine passion for visual computing and software development.

Skills

Typescript | React | Next.js | Three.js | Node.js | REST API design | SQL | Python | MATLAB | C# | Java | Software testing | Unity 3D

Languages

English — C1

French — A2

Mandarin — Native

Interests

Photography | 3D modeling | Drawing | Hiking | Swimming

Professional experience

Software developer
Quanthome
05/2023 – Present | Lausanne, Switzerland
- Developed, maintained, and optimized frontend and backend components for data-driven web applications using React, Node.js, and TypeScript.
- Worked closely with the UI/UX design team to build innovative, user-focused features, translating designs into interactive, scalable, and maintainable components.
- Designed and implemented RESTful APIs with user authentication (Ory Kratos) and role-based access control (Ory Keto), ensuring secure and reliable data access.

Research Assistant
Idiap Research Institute
02/2022 – 02/2023 | Lausanne, Switzerland
- Performed data collection from Wikipedia and applied natural language processing techniques, including named entity recognition and text summarization, followed by data visualization using Python.
- Developed an interactive platform presenting analytical insights on Swiss mountain lakes using native JavaScript.
- Published paper *Characterizing Swiss Alpine Lakes: from Wikipedia to Citizen Science.*

Programmer Trainee
ITE Smartcard Solutions Limited / RF Tech Limited
09/2018 – 08/2019 | Hong Kong
- Implemented software systems using ASP.NET, contributed to full-stack development.
- Developed a C# application to construct the internal file system for a smartcard, which was used for a parking management system.
- Assisted in setting up MySQL databases and took responsibility for database management.

Summer Intern
Logistics and Supply Chain MultiTech R&D Centre
06/2018 – 08/2018 | Hong Kong
- Designed and implemented a Python-based GUI for trademark recognition.
- Developed an Android application using Android Studio to control and monitor delivery robots.
- Created and executed test cases for robots, analyzed performance metrics, and evaluated system reliability based on test results.

Education

École polytechnique fédérale de Lausanne
Master of Science in Digital Humanities
2020 – 2022 | Lausanne, Switzerland

The Chinese University of Hong Kong
Bachelor of Science in Computer Science
2015 – 2020 | Hong Kong
- Graduated with Honors, First Class
- Awards: Dean's List, 2019 - 2020