Ruowen Liu

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EDUCATION

Tampere University   Tampere, Finland

B.Sc. (Tech.), Computing and Electrical Engineering   —   GPA: 5.0/5.0   *Aug. 2024 – Jun. 2026 (expected)*

- Major in **Software Development.**
- Minor in Applied Mathematics.
- **Key courses**: Database Basics (DATA.DB.100), Programming 3: Interfaces (COMP.CS.115), Data Structures and Algorithms 1 (COMP.CS.300), Introduction to Full Stack Development (COMP.CS.500), Computer Architecture (COMP.CE.130).

Huaqiao University   Fujian, China

B.Sc., Applied Physics   —   GPA: 3.5/5.0   *Sep. 2018 – Jun. 2022*

- **Key courses**: Mechanics, Electromagnetism, Optics, Computational Physics, Programming with MATLAB, Advanced Mathematics, Information Technology Application, Literature Search and Scientific Paper Writing, Computer Language and Practice Algorithms (Software).

EXPERIENCE

Research Training – DataOps & Software Engineering   Tampere, Finland

Tutored by Dr. Sergio Moreschini, Tampere University   *Nov. 2025 – Present*

- Investigated DataOps principles and their impact on Technical Debt in software systems under academic supervision.
- Conducted a systematic literature search across ACM, IEEE, Web of Science, and Scopus to identify and study DataOps practices.
- Traced and analysed published studies to their associated public GitHub repositories.
- **Keywords**: DataOps, Technical Debt, Software Engineering Research, Literature Review, Repository Analysis.

Jira Bug Report Assistant   Tampere, Finland

Software Engineering Project (COMP.SE.610)   —   Tampere University   *Sep. 2025 – Dec. 2025*

- Developed an AI-assisted Jira plugin using **Atlassian Forge** to provide real-time quality feedback on issue descriptions.
- Implemented project page and issue panel modules with **Custom UI (React)**.
- Integrated OpenAI API for automated error detection, severity scoring, and natural-language improvement suggestions.
- Collaborated with industry partners (Solita Oy.) and delivered MVP with successful on-site installation and testing.
- **Tech stack**: Forge, React, Node.js, OpenAI API, Atlassian REST API.

A Simple Device for Observing the World in Droplets   Fujian, China

Bachelor's Thesis   —   Huaqiao University   *Dec. 8, 2021 – May. 18, 2022*

- Score: 94/100 (Excellent(A))
- Designed and built a low-cost laser projection microscopy system using a laser pointer and water droplets to magnify and visualize microbial structures.
- Developed and applied **MATLAB-based motion-tracking algorithms** that automatically captured and analyzed the swimming trajectories of microorganisms from video frames.
- **Keywords**: Laser Projection Microscopy, Optical Diffraction, Microbial Imaging, Water Quality Analysis, Video Data Processing.

TECHNICAL SKILLS

Programming: Python, C, C++, JavaScript, MySQL, MATLAB
Web & Tools: HTML/CSS, React, Node.js, basic full-stack development, Git, Atlassian Forge
Domains: Algorithms and data structures, software development, data analysis with Python, comprehensive physics background

Awards and Scholarships

Tampere University Tuition Fee Scholarship   Tampere, Finland
100% tuition fee waiver   *Aug. 2024 – Present*
- Merit-based scholarship awarded for excellent academic performance and study potential.

Extracurricular Activities

Debate Team Captain   Fujian, China
Huaqiao University   *Sep. 2019 – Jun. 2022*
- Led the university debate team to **1 championship, 1 runner-up, and 2 third-place** finishes in regional competitions.
- Received multiple "Best Debater" awards for outstanding performance in formal debate tournaments.

Science Popularisation Volunteer   Fujian, China
Xiamen Science & Technology Museum   *Aug. 2018 – Jan. 2021*
- Contributed over **100 volunteer hours**, assisting visitors and explaining scientific concepts in public outreach events.

Language Skills

Chinese: Native
English: IELTS 6.5 (Writing 6.5), certified Apr. 8, 2023
Finnish: CEFR A2.1 (Finnish 4, LANG.SUV.004)