Liang Ji Zhu

Computer Science Student
Madrid, Spain / Trondheim, Norway

Contact

- liangjizhu29@gmail.com
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- liangjizhu.github.io

Skills

- C++, Python, ROS2
- Software Development
- Databases
- Debugging & Troubleshooting
- Project Management Tools
- Documentation & Code Readability
- Teamwork & Communication
- Algorithmic & Logical Thinking

Languages

- Chinese — Native
- Spanish — Proficient
- English — B2 Certified

Interests

- Data Structures & Algorithms
- Robotics Simulation
- Software Engineering
- Systems & Data

Professional Summary

Motivated Computer Science student with a solid foundation in software development, data structures, and cybersecurity. Interested in building efficient and reliable software systems, with hands-on exposure to robotics simulation through ROS2, C++, and Stonefish. International experience through an Erasmus exchange in Norway, complemented by volunteering and team-based competitive activities.

Experience

Simulator Engineer
Vortex NTNU — Trondheim, Norway
September 2025 – March 2026

- Contributed to the simulation workflow of an underwater drone project.
- Captured synthetic image data in the simulator to support experimentation and training tasks.
- Used ROS2, C++, and Stonefish in a robotics simulation setting.
- Investigated stereo camera and sonar data fusion, including troubleshooting unstable output during integration.

Volunteer (Vert)
UKA, NTNU — Trondheim, Norway
September 2025 – November 2025

- Helped prepare venues and assemble barriers as part of the volunteer event crew.

Shop Assistant
Alimentación Bazar — Madrid, Spain
March 2021 – August 2025

- Assisted customers and supported day-to-day store operations in a fast-paced environment.

Projects

Snow Pole Detection
Computer Vision Project

- Built a computer vision project for real-time snow pole detection in winter driving conditions.
- Worked with object detection pipelines including YOLO and RF-DETR for experimentation and evaluation.

Distributed File Sharing System
Distributed Systems Project

- Developed a peer-to-peer file sharing system combining C-based server components with Python services.
- Integrated client-to-client transfer workflows with RPC and REST-based communication.

Education

Bachelor in Computer Science and Engineering
University of Carlos III de Madrid
Student — Erasmus exchange in Norway, 2025/2026

Science and Technology Baccalaureate
Colegio Villa de Móstoles — Class of 2020
Final Grade: 9.60

Extracurricular

Competitive Esports Player — Iberian Raiders

- Achieved second place in league competition.