

Lizhong Hu

Website | Email | GitHub | Codeforces | LinkedIn

Profile

Software Engineering undergraduate in a Sino-American dual-degree program jointly operated by Quanzhou University of Information Engineering and Slippery Rock University. Interested in algorithms, software systems, information retrieval, and reliable intelligent systems, with experience in competitive programming, back-end development, Linux/Docker infrastructure, and programming-contest system maintenance.

Research Interests

Intelligent Software Engineering; Programming Support and Online Judge Systems; Algorithms and Data Structures; Information Retrieval and Retrieval-Augmented Generation.

Education

Quanzhou University of Information Engineering

2023–2027 (*expected*)

Software Engineering (Sino-foreign Cooperation)

GPA: 3.10/4.00

Slippery Rock University

Bachelor of Science in Information Systems

GPA: 3.583/4.000

Four-year Sino-American 4+0 dual-degree undergraduate program conducted in China and officially recognized by the Ministry of Education of China.

Selected Projects

Personal Knowledge Question-Answering System with RAG

Undergraduate Thesis, Ongoing

Developing a personal knowledge question-answering system using FastAPI and retrieval-augmented generation, with a focus on document retrieval, knowledge grounding, and LLM-based response generation.

DOMjudge / Xboard Infrastructure Maintenance

Sep 2024–Present

Containerized and maintain a DOMjudge environment for university programming training and competitions; administer an Xboard VPS for reliable remote contestant access using Linux and Docker.

ETi+ Back-End API Development

Mar 2025–Apr 2025

Built authentication, data aggregation, and testing APIs using Python, Flask, PostgreSQL, and MongoDB; introduced automated Postman regression testing for pre-deployment verification.

Technical Experience

Chinese Computer Federation (CCF) — NOI-Pre Project Tester

Jul 2024–Oct 2024

Authored test cases for official NOI-Pre problems, validated solutions through targeted submissions, and delivered feedback on solution correctness and judge behavior.

Aichi-Nagoya 2026 Asian Games — Incoming TOC Operator

Sep 2026–Oct 2026

Selected for technical operations support during the 20th Asian Games Aichi-Nagoya 2026.

Competitive Programming & Awards

- **2026 CCPC Fujian Invitational** — First Blood on Problem A; recorded the contest's first accepted solution to Problem A.
- **49th ICPC Asia Kunming Regional** — Onsite Contestant, 2024.
- **Fujian Provincial Collegiate Programming Contest (Python, Group B)** — First Prize, 2024.
- **15th Fujian Province Software and Information Technology Professional Talent Competition** — National Finalist; Outstanding Award, 2024.

Technical Skills

Languages & Algorithms: C++, Python, Java, JavaScript, Go; algorithms and data structures, competitive programming.

Back-End & Data: FastAPI, Flask, RuoYi, PostgreSQL, MongoDB, MySQL, REST API design and integration.

Systems & DevOps: Linux, Docker, Git, SQL tooling, DOMjudge deployment and infrastructure maintenance.

Information Retrieval & AI Systems: Retrieval-Augmented Generation (RAG), LLM API integration, prompt design.