

Hao Luo

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EDUCATION

Stony Brook University

Bachelor of Science in Information system, *Specialization in TSM*

Stony Brook, New York

Expected May 2026

GPA: 3.88/4

Relevant Coursework: CSE300

Anhui University

Bachelor of Science in digital media technology

Anhui, China

Sep. 2022- Jul. 2026

Average Score: 86.38/100

honour&award:

2024 China College Student Computer Design Competition Provincial Third Prize

2023 Anhui Province Themed Reading and Recitation Competition University Level First Prize

2022 First Host Competition College Level Second Prize

2024 University-level Cultural and Sports Activities Award

2022 Anhui University, Stony Brook Institute Second Sports Meets Men's Shot Put First Prize

2024 **Outstanding** Communist Youth League Member at the University Level

2023 **Outstanding** Student Cadre at the University Level

TECHNICAL SKILLS

Computer: Python (**data analysis & visualization**); C, C++, Java; **algorithm design and object-oriented programming.**

MATLAB, SQL, HTML

Tools: Photoshop. Unity. Blender

Skills: **Machine Learning, Artificial Intelligence**

RELEVANT EXPERIENCE

Zhejiang Zhiqi Network Technology Co., Ltd.

China

Software Technology Developer

Start Jan. 2025-End Feb. 2025t

- Assisted the Software Technology Development Department in developing and testing functional modules for the company's core projects.
- Participated in system function verification and problem fixing to ensure the integrity and stability of project functions.
- Enhanced practical understanding of software development processes, code debugging, and teamwork.

Hangzhou Zhiyu Information Technology Co., Ltd.

Hangzhou,China

Tester (Technology R&D Department)

Start Aug. 2024 – End Sep. 2024

- Responsible for **functional and compatibility testing of mobile applications**
- Execute test cases, record defects and submit them to the defect management system, and track issues until they are closed.
- Assist the development team in reproducing issues and verifying fixes to ensure functional stability.
- Proficient in common ADB commands to implement test support functions such as application installation, log capture, and automated operations.
- Identify and assist in fixing multiple critical functional defects to improve product stability and user experience

PROJECTS & LEADERSHIP EXPERIENCE

Project Name: Research on Property Inference Attacks in Federated Learning

Date:Aug. 2024- Present

- **Conducted threat model analysis** and established experimental baselines
- Reproduced attack experiments under various data distributions and aggregation strategies.
- Evaluated attack success rates, communication costs, and defense benefits; analyzed the trade-offs between communication frequency and model accuracy.
- Addressed performance fluctuations caused by non-IID data and ensured experimental reproducibility and rigorous control comparisons.
- Led the development of a complete experimental pipeline and authored a technical report, resulting in the **software copyright** “Federated Learning Platform for Personalized Privacy-Preserving Neural Networks” (Applicant: Anhui University, Registration No. 2025R11L0323194).
- Developed a systematic understanding of the balance between privacy protection, collaborative learning, and engineering trade-offs.

Project Name: Image-based intelligent counting system for steel reinforcement materials **Date: Sep 2023-**

Mar2024

- Reviewed foundational literature on image recognition and the YOLOv5 detection algorithm, and gained an understanding of the overall logic of smart-construction systems.
- Assisted the team with background research, literature organization, and preparation of project documentation.
- Gained initial knowledge of key concepts in deep learning-based object detection, including image preprocessing and data annotation workflows.
- Developed skills in information retrieval and technical framework organization, laying a solid foundation for further study in image recognition and intelligent system development.

Student Organization: Student Union- *General Affairs Department*

Date: Sep. 2022-Jan. 2023

Member

- Assisted in the planning and execution of on-campus activities and meetings, and coordinated the work progress of various department
- Participated in writing activity notices, summaries, and external liaison documents to improve the standardization of departmental work
- Assisted in maintaining the internal affairs and material management of the student union to ensure the smooth operation of daily work