

Yanzhu Huang

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Education

Georgia Institute of Technology | Atlanta, GA

Dec 2024 (Expected)

Bachelor of Science in Computer Science – *Intelligence & Info Internetworks* Threads

GPA: 4.0/4.0

Awards/Scholarships: Faculty Honor, Female For Tech, Dean's List, Break Through Tech AI

Clubs: Rewriting the Code, Women @ College of Computing, Girls Who Code, EcoCar, GT Trailblazers, Orienteering team (Founder)

Skills

Programming: Java, Python, C, C++, AWS, Angular, JavaScript, HTML, CSS, MySQL, React Native, Testing

Concepts: Machine Learning, Computer Vision, Information Security, Systems and Networks, Artificial Intelligence, Design & Analysis Algorithms, Database Systems, Perception & Robotics, Objects & Design, Object-Oriented Programming, Data Structures, Computer Organization, Linear Algebra, Integral Calculus, Discrete Mathematics, Multivariable Calculus, Applied Combinatorics

Communications: Research papers, Lab write-ups, Technical reports, Presentations (large and small audiences), Emails

Languages: English, Chinese

Experiences

Amazon | Sunnyvale, CA

May 2023—Aug 2023

Software Development Engineer Intern

- Built new graph default arcs by using **Java** and **AWS** to provide general default settings in the workflow management platform that powers thousands of mission-critical workflow applications across Amazon's businesses in ORCA backbone team.
- Designed and implemented innovative solutions to automate error handling to improve the overall workflow efficiency, reduce code repetition rate, and developed a new override feature to effectively address various usage scenarios.
- Launched the project to production and presented the features to both clients and the team, showcasing functionalities and benefits. Documented the ways of usages for clients.

Georgia Tech Research Institute | Atlanta, GA

Jan 2022 – Dec 2022

Research Assistant

- Conducted undergraduate **research** with Dr. Arriaga in Ubicomp Health Lab to build a Prolonged Exposure Collective Sensing System for PTSD patients, clinicians, and data scientists that is usable and useful, and write weekly log and reflection paper.
- Improved clinical delivery and patient practice by creating a computational ecosystem to transcribe data in a safe and secure way, designed and updated dashboard using **Angular** in the develop team, read related papers, and wrote bibliography.

Bailing Technology (Beijing) Co.,Ltd. | Beijing, China

Jan 2021 – May 2021

Software Engineer Intern

- Developed software back-end in **Java** to record personal exercises activities and collect information for sports competitions in the technology team. Worked in the Marathon Group project by using database **MySQL** to plan projects.
- Tested** application and web version. Participated in setup, configuration, and maintenance of test automation framework.

Projects

Facial Emotion Recognition Machine Learning Project

August 2022-Dec 2022

- Trained and tested machine learning models in **Python** from the online dataset of Facial Emotion images with a team of 5.
- Preprocessed the images with PCA and trained with SVM, Random Forest, CNN, etc. models to accuracy of 67% for 7 classes.

Web Light and Sound Memory Game

May 2022

- Designed a Light and Sound Memory Game online by self-learning **JavaScript**, **HTML**, and **CSS**.
- Added the features including different pitches, play speed, clock countdown, etc., to improve the game functionality.

HackGT 8 Project

Oct 2021

- Designed a prototype of the social media GreenSpace for plant community in a **team** of 3 in the hackathon.
- Learned **UI/UX** and **Figma** in workshops and applied the knowledge to create login, register, feed, search, etc. pages.

Leadership

Georgia Tech College of Computing | Atlanta, GA

Jan 2022 – Now

Teaching Assistant & Peer Mentor

- Advised** and guided 30-50 first-year computer science students through campus life and the Georgia Tech community.
- Taught** CS 2050 (Discrete Math) recitations every week to help with reviewing the contents and guide to do worksheets.
- Held office hours 3 hours per week, grade homework and exams as the only first year student in the TA group.