

Annie Hu

anniegracehu@utexas.edu | 614-636-1232 | github.com/anniehu17 | linkedin.com/in/annie-grace-hu/

Education

The University of Texas at Austin, GPA 4.0 Aug 2023 - May 2026
Bachelor of Science in Computer Science, Turing Scholars Honors Program
Coursework: Honors Data Structures, Honors Discrete Math, Honors Computer Architecture, Prediction Mechanisms in Computer Architecture (Grad-level)

Experience

Incoming Software Engineer Intern, Roblox – San Mateo, CA May 2024 – Aug 2024
Software Engineer Intern, EquipmentShare – Remote June 2023 – Aug 2023

- Ported an entire tax transaction Python project involving 2 AWS Lambdas to TypeScript/Node.js
- Applied functional programming concepts with fp-ts and io-ts to refactor 2 tax commands in TypeScript
- Migrated infrastructure from AWS CloudFormation to AWS Cloud Development Kit (CDK), upgrading to FIFO SNS topics and SQS queues to ensure FIFO order and deduplication in transaction messaging
- Verified functionality by writing Jest unit tests with mocks and by monitoring AWS CloudWatch logs
- **Technologies:** TypeScript, Node.js, AWS (Lambda, SNS, SQS, CDK, CloudWatch), Jest, fp-ts, io-ts

Teaching Assistant, The Ohio State University – Columbus, OH Jan 2021 – Aug 2023

- Graded for 11 unique sections and over 400 students for 4 courses: Software Components, Software Development and Design, Low-Level Programming and Computer Organization, and Survey of Artificial Intelligence: Basic Techniques
- Supervised a team of Teaching Assistants (TAs) as Head TA: delegating grading responsibilities, creating rubrics to ensure consistent grading, and streamlining the grading process through the creation of bash scripts
- **Technologies:** Java, C, x86-64 Assembly, Vim, Bash Scripting

Research Assistant, The Ohio State University CETI Research Group – Columbus, OH May 2022 – Aug 2022

- Explored interpretability and debuggability in neural networks with Dr. Rajiv Ramnath
- Built a Neural Network from scratch that identifies handwritten numbers
- Implemented a reverse back-query method to see inside the networks “mind”
- **Technologies:** Python, Jupyter Notebook, Google Colab, seaborn

Research Assistant, The Ohio State University CETI Research Group – Columbus, OH May 2021 – Aug 2021

- Created a transcription process for customer service calls using Natural Language Processing
- Automated the process of rating the customer service representative based on the call
- **Technologies:** Python, pandas, spaCy, CoreNLP, Google’s SpeechRecognition, NLT

Personal Projects

Clue Guesser | *React, Django, SQL, JavaScript, Python, Azure VM* github.com/anniehu17/codenames

- Developed a full-stack web application with Django serving a REST API with React as the front-end
- Engineered an AI algorithm to generate clues for solving a 3x3 board based on the game Codenames
- Implemented a SQL database to persist login credentials and leaderboard information

Technical Skills

Languages: Java, C/C++, Python, JavaScript, TypeScript, x86-64 Assembly, HTML/CSS
Frameworks: React, Django, Node.js, Bash, JUnit Testing, Jest, AWS (Lambda, SNS, SQS, CDK, CloudWatch)

Campus Involvement

Turing Scholars Student Association, Executive Board Corporate Chair March 2024 – Present

- Coordinate with companies to host corporate recruiting events for 200+ Turing Scholars
- Organize community social events to promote camaraderie and networking among members

Freetail Hackers, Back-End Web Developer Feb 2024 – Present

- Contribute to an admin portal streamlining application and registration for UT-hosted hackathons serving 2500+ users
- Support a robust role-based architecture for administrative tasks, enabling seamless user management, event scheduling, and communication within the organization