Annie Hu

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

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), Linear Algebra, Calculus 1, 2, & 3
Extracurriculars: Freetail Hackers (Back-End Web Developer), Women in Computer Science, CS Roadshow

EXPERIENCE

Incoming Software Engineer Intern   May 2024 – Aug 2024
Roblox   *San Mateo, CA*

Software Engineer Intern   June 2023 – Aug 2023
EquipmentShare   *Remote*

- 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   Jan 2021 – Aug 2023
The Ohio State University Computer Science and Engineering Department   *Columbus, OH*

- Graded for Software Components, Low-Level Programming and Computer Organization, Software Development and Design, and Survey of Artificial Intelligence: Basic Techniques
- Created bash scripts that save time by automating part of the grading and test process
- **Technologies**: Java, C, x86-64 Assembly, Vim, Bash Scripting

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

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

- Created a transcription process for customer service calls using NLP
- Automated the process of rating the customer service representative based on the call
- **Technologies**: Python, pandas, spaCy, CoreNLP, Google's SpeechRecognition, NLTK

PROJECTS

Clue Guesser | *React, Django, SQL, JavaScript, Python, Azure VM*   August 2022

- Developed a full-stack web application with Django serving a REST API with React as the front-end
- Generated AI clues to solve a 3x3 board based on the game Codenames
- Used SQL database to persist login 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)