

# Annie Hu

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## EDUCATION

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**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

**Extracurricular Activities:** Women in Computer Science, Girls Who Code, CS Roadshow

## EXPERIENCE

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**Incoming Software Engineer Intern**

May 2024 - Aug 2024

*Roblox*

*San Mateo, CA*

**Software Engineer Intern**

June 2023 - Aug 2023

*EquipmentShare*

*Georgetown, TX*

- 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

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**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

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**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)