

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, Graduate Prediction Mechanisms in Computer Architecture, Honors Operating Systems, Symbolic Programming

Experience

Roblox, Software Engineer Intern – San Mateo, CA

May 2024 – Aug 2024

- Engineered a tool that aggregates and displays data from several back-end sources, providing a centralized view for game moderation
- Created an API for real-time information retrieval by aggregating and processing data from Elasticsearch and several microservices
- Designed a front-end view in React that is easily extendable to support new data sources while supporting search, filtering, and rich media display
- Conducted interviews with stakeholders to gather product requirements and prepared a technical design document
- Technologies:** TypeScript, Python, React, Nomad, FastAPI, Elasticsearch, Kibana, Grafana, Docker

EquipmentShare, Software Engineer Intern – 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

The Ohio State University, Teaching Assistant – 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, JUnit Testing

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: Python, Java, C/C++, JavaScript, TypeScript, Rust, SQL, x86-64/ARM Assembly

Frameworks: React, Django, Grafana, Elasticsearch, PostgreSQL, Nomad, Docker, Node.js, Amazon Web Services

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
- Technologies:** Svelte, PostgreSQL, JavaScript, Prisma ORM, Node.js, Gitlab CI