470-301-5218 | ethanlooyt@gmail.com | linkedin.com/in/ethan-loo-73a1b0236/ | shiloh4.github.io

EDUCATION

Georgia Institute of Technology

Atlanta, GA

BS Computer Science - CGPA: 3.80

May 2022 - May 2026 (anticipated)

EXPERIENCE

Keysight Technologies | Eggplant

Penang, MY

QA Engineer Intern

May 2024 - Aug. 2024

- Authored and debugged automated model-based and script-based test scripts in Eggplant Functional. Discovered 4
 breaking bugs and led development of automated MBT tests for the respective test cases. Wrote approximately 300
 lines of code in SenseTalk.
- Spearheaded the development and implementation of front-end, back-end, and other test procedures (**Cypress tests**, API/BDD tests, MBT tests) for new systems and application features under development.
- Collaborated in defining the minimum viable product (MVP) for Eggplant DAI version 7.5.0-0.

PROJECTS

Connect-RX (HackGT11)

React-Native

- Developed a cross-platform medication adherence tracking app using React Native for patients and React for doctors, tackling the issue of medication non-adherence.
- Leveraged ngrok to securely expose our Flask API backend, enabling seamless communication between the React Native mobile app and the React web app for real-time testing and integration.
- Designed and integrated a SQLite database to manage and store patient medication records, ensuring reliable data persistence across devices.
- Handled push notifications and reminders for patients based on prescription schedules received from Ract app. Implemented a streak counter feature in the React Native app to gamify and reward patients for adherence.

CompViz (Create-X | launchny)

React

- Founding member of a Django-based application that analyzes over 15,000 accounting metrics, providing insights to small businesses by comparing against consolidated anonymized industry data and publicly available data.
- Led the development of the frontend in React, responsible for connecting the React frontend to Django backend endpoints to pull external data.
- Implemented integrations with FRED, EDGAR, and QuickBooks to incorporate micro, macro, and alternative data sources into the app.

AgentArena (AI ATL 2024)

React

- Developed a web-based LLM simulation platform using React for the frontend and Flask for the backend, enabling users to simulate and analyze agent interactions in multi-agent scenarios (Prisonners' Dilemma). Utilized Fetch API and React Hooks to dynamically fetch and update game state data in real-time.
- Leveraged Plotly.js for interactive data visualization, displaying agent performance metrics such as niceness, forgiveness, retaliatory, troublemaking, and emulative behavior over multiple simulation rounds.

Spotify Wrapped Application

Android Studio | Kotlin, Java

- Developed an application using Kotlin for both the frontend and backend, integrating Spotify API and Firebase to retrieve, store, and deliver personalized music analytics.
- Led the design and implementation of UI/UX, creating an interactive and visually engaging user interface.

SKILLS & INTERESTS

Programming Languages/Frameworks: HTML, CSS, JavaScript, React, React-Native, Java, Python, C, C#, SQL, PostgreSQL, SQLite, SenseTalk, LaTeX, Django, Flask API, RISC Assembly

Software: Android Studio, TKinter, Firebase, Git, GitHub, Docker, VSCode, IntelliJ, NodeJS, PopSQL, Unity, Discord Developer Tool, MagicaVoxel, Aseprite, Affinity Suite, Microsoft Excel, Microsoft Office, Tableau, ngrok

CLASSES

Relevant Courses: Data Structures and Algorithms, Computer Organization and Programming, Design and Analysis of Algorithms, Procedural Content Generation, Computer Graphics, Systems and Networks, Statistics and Applications

LEADERSHIP

Georgia Tech Malaysia Student Association

Jan. 2023 - May 2024

Head of Outreach

• Designed impactful social media content and graphic designs using Affinity Photo and Designer, boosting Instagram engagement by 6%.