

# Ethan Loo

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## EDUCATION

### Georgia Institute of Technology

BS Computer Science - CGPA: 3.80

Atlanta, GA

May 2022 - May 2026 (anticipated)

## EXPERIENCE

### Keysight Technologies | Eggplant

QA Engineer Intern

Penang, MY

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.

## SKILLS & INTERESTS

**Programming Languages/Frameworks:** HTML, CSS, JavaScript, React, Java, Python, C, C#, SQL, SenseTalk, LaTeX, Django, PostgreSQL, 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

**Interests:** Web Development/Design, Game Development/Design, **Data Science**, Graphic Design, Photography

## PROJECTS

### Spotify Wrapped Application

Android Studio | Kotlin, Java

- Engineered an application that integrates Spotify API and Firebase to retrieve, store, and deliver personalized music analytics.
- Led the planning and execution of UI/UX design and front-end development, resulting in an interactive and visually appealing interface.

### Vertically Integrated Project: Video Game for Power Grids

Unity | C#

- Directed planning and development of UI/UX design for the video game, enhancing the game's accessibility and intuitiveness.
- Collaborated across teams to define game mechanics, physics, and complexity and modelled 3D game assets using MagicaVoxel and Unity.

### Quantum (2D Pixel Platformer)

Unity | C#

- Led UI design and development, ensuring a seamless user experience and enhancing user accessibility and intuitiveness.
- Developed game assets and animation using Aseprite and Unity.

### Minerva OCR & Multimodal (DuckAI)

TKinter

- Spearheaded development of GUI for eye-tracking data visualization, developing 3 designs prototypes using TKinter.

## 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%.

### Reformed University Fellowship

Jan. 2024 - Present

Graphic Designer

- Created compelling graphic designs for RUF social media and event promotions using Affinity Photo and Designer.

### Extracurricular Achievements:

- Achieved 1st Degree Black Belt in Taekwondo ITF.
- Achieved PADI Open Water and Advanced Open Water Diver License.