

Ethan Loo

EDUCATION

Georgia Institute of Technology

BS Computer Science - CGPA: 3.80

Atlanta, GA

May 2022 - May 2026 (anticipated)

PROJECTS

Spotify Wrapped Application

Android Studio | Kotlin, Java

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

Vertically Integrated Project: Video Game for Power Grids (Management Simulation)

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.
- 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.

EXPERIENCE

Keysight Technologies | Eggplant

May 2024 - Aug. 2024

QA Engineer Intern

Penang, MY

- Spearheaded the development and implementation of test procedures for various new systems and application features under development.
- Collaborated in defining the minimum viable product (MVP) for Eggplant DAI version 7.5.0-0.
- Authored and debugged automated model-based and script-based test scripts in Eggplant Functional.

SKILLS & INTERESTS

Programming Languages: HTML, CSS, React, Java, Python, C, C#, JavaScript, SQL, LaTeX, SenseTalk

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

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

Extracurricular Achievements:

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

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.