Ethan Loo

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EDUCATION

Georgia Institute of Technology — Atlanta, GA
BS Computer Science - CGPA: 3.80 — *May 2022 - May 2026 (anticipated)*

EXPERIENCE

Keysight Technologies | Eggplant — May 2024 - Aug. 2024
QA Engineer Intern — *Penang, MY*

- Spearheaded the development and implementation of test procedures (Cypress tests, API/BDD tests, MBT tests) 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, JavaScript, **React**, Java, Python, C, C#, 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

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 (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.

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%.

Extracurricular Achievements

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