

Mireille Tan

Graduated student from Raffles Institution,
Microsoft Learn Student Ambassador (Gold)

Contact

Email ✉

mireille.tan@gmail.com

GitHub 🐙

github.com/Mireille-T

LinkedIn 🌐

linkedin.com/in/mireille-tan/

Profile

A student with plans to gain more exposure and develop in the tech field as well as pursue Art X Tech before university begins.

Skills

Coding + Tools

- JavaScript
- C++ / C
- Python
- HTML + CSS
- GitHub
- Dart (Flutter)

Electronics

- Arduino
- Soldering
- EV3 Robotics

Graphic Design

- Inkscape
- Figma
- Canva

Fabrication

- 3D Modelling
- 3D Printing
- Laser Cutting
- Woodwork

Languages

- English (Native)
- Chinese (Bilingual)
- Spanish (Advanced)

Interests

- Digital Accessibility
- Extended Reality
- Computer Graphics
- Game Development
- Jigsaw Puzzles

Experience

Jan '21 - Present, Internship at Tinkertanker Pte. Ltd.

- Code MakeCode extensions to be micro:bit v2-compatible
- Researched and developed curriculum on Unity, WebAR with A-Frame and training AI models for Micro:bit v2
- Volunteered to self-learn Microsoft Power Automate to create a reusable automated certificate generator for DigiGirlz 2020

Nov '20 - Present Backend Development of Elly Browser Extension (Video, Twitter) 🌐

- Collaborated with a global team to build an accessibility add-on that automatically generates alt text for draft images on Twitter
- Coded the backend (alt text generator and accessibility checker) in JavaScript, using Axios to call 3 Azure APIs
- Translated frontend from Figma design to HTML and CSS

Apr '20 - Aug '20 Raffles INVENT Technology Incubation Programme

- Coded a dementia assistance app prototype 🌐 using Flutter SDK in pursuit of my passion for assistive technology.

Jun '18 RoboCup World Finals in Montreal, OnStage League

- Programmed an EV3 Robotics printer and several Arduinos involving use of gesture sensors and VEX motors, thus contributing towards us winning 5th overall globally.

Service

Apr '19 - Jun '19 Micro:bit Workshop @ Good Shepherd Student Care

- Enabled the Robotics Club to make a positive impact by initiating the CCA's first service project - teaching Micro:bit to P2 students
- Coordinated with beneficiaries and prepared the training material from scratch

Leadership

Jul '20 - Jun '21 Raffles Institution Audio Visual Unit Vice-Chairperson

- Handled stage lights and audio for school events (e.g. Orientation)
- Introduced video-editing to the CCA to adapt to COVID-19

Education

Jan '20 - Dec '21 Raffles Institution (90RP, H2: Mathematics, Physics, Chemistry, Spanish | H1: General Paper | H3: Mathematics)

- Lee Kuan Yew Award for Mathematics and Science (2020)
- Edusave Award for Achievement, Good Leadership and Service (2022)
- Spanish Language Elective Scholarship (2020 - 2021)

Jan '16 - Dec '19 Raffles Girls' School (Secondary)

- Dorothy Buckle Top Mathematics and Science Award (2020)
- KS Goh New Media & Technology Award (2019)
- Edusave Character Award (2019)