



# Ethan Chew

Software Engineer, Full-Stack Web Developer

Passionate about developing programs and solutions that address challenges within the public sector, with a strong interest in aviation, photography, and hardware projects.

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## Key Strengths

Adaptable

Strong Team Player

Quick Learner

Self-Motivated

Leadership

## Education

### Diploma in Information Technology

Ngee Ann Polytechnic | 2023 - Current

- Certificate in Advanced Computing Mathematics
- Minor in Applied Psychology
- Director's List (Year 1 & 2)
- First Most Outstanding Performance in Cohort - Year 2, Semester 2

### Leadership & Activities

- Vice President, NP Overflow (AY24/25)
- Administrative Head, NP Photography Club (AY24/25)
- President, NP Photography Club (AY25/26)
- Overseas Merit Fellowship 2025
- Phin Phin Coffee, NP Be-Your-Own-Boss (BYOB)

## Experience

### Software Engineering Intern

RSAF Agile Innovation Digital (RAiD) | Mar 2025 - Current

- Led a team in the development of Command, Communications, and Control (C3) systems:
  - Experimental Air Traffic Controller (ATC) Training Simulations for Approach and PAR Control
  - Experimental Drone Swarming C3 Platform

### Education Technology Intern

Tinkertanker | Nov 2022 - Aug 2023

- Created curriculum and lesson slides for iOS Development in Swift (Swift, SwiftUI, Frameworks) for Swift Explorers, Swift Coding Clubs, and Swift Accelerator.
- Mentored the Swift Accelerator Program Cohort of 2022
- Conducted Lessons in Primary and Secondary School for Swift Development

### GCE O Levels, Computing+

School of Science and Technology | 2019 - 2022

### Leadership & Activities

- Vice President, SST Inc. (Technology Special Interest Group)
- Patrol Leader, SST Fearless Falcons (Scouts)

### Consultant

GeeksHacking | Oct 2022 - Jan 2024

- Mentored my Juniors in a Technology Talent Development Club
- Developed a Full-Stack Development Project

## ★ Achievements

### Polytechnic Champions

Dell InnovateFest 2025 | Oct 2025

### Unmanned Aircraft Pilot Licence

Civil Aviation Authority of Singapore | Dec 2024

### Private Pilot Licence (ASEL)

Federal Aviation Administration | Mar 2024

### Medallion of Excellence

WorldSkills Singapore (Web Technologies) | Apr 2025

### A\*Star Science Award (Polytechnic)

2024 - Current

### Ngee Ann Polytechnic Scholarship

2023 - Current

## 👤 Volunteer Experience

### Organising Team | HackOMania 2024, 2025, 2026

GeeksHacking | Current

### Organising Team & Volunteer | iOS Dev Scout

2022 - Current

### Mentor | Swift Accelerator Program

Tinkertanker, Apple, IMDA | 2024

## 📖 Certifications

### Professional Scrum Master™ I (PSM I)

Scrum.org | May 2024

### App Development in Swift | Certified User

Apple | Mar 2022

### App Development in Swift | Associate

Apple | Jan 2022

## 🔧 Skills

### Full-Stack Development

#### — Front-End Development

- HTML, CSS, JS
- React, NextJS

#### — Back-End Development

- NodeJS
- FastAPI (Python)
- Go

### Databases

- MySQL, Microsoft SQL
- Supabase
- Firebase

### Electronics

- Raspberry Pi
- Arduino
- ESP32

### Design

- Adobe Photoshop
- Canva
- Figma

### AI Research and Development

- DSPy with Python
- Deep Learning with PyTorch
- HuggingFace