

# Vania Crystal Halim

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## Education

### Carnegie Mellon University

May 2025

B.S in **Information Systems**

#### Coursework:

- Fundamentals of CS
- Concepts of Mathematics
- Principles of Functional Programming
- Principles of Imperative Computation
- Information Systems Millieux

## Skills

**Coding:** Python · HTML CSS · JavaScript SQL · LaTeX

**Tools:** Unity · Figma

#### Certifications:

AWS Solutions Architect Associate ·  
Microsoft Azure Data Fundamentals

## Languages:

English	
Mandarin	* * * * *
Bahasa Indonesia	* * * * *
Malay	* * * *
French	* * * *
	* * *

## Work Experience

### Tech Consultant and Project Manager - re:Bloom 2021- Present

Used Figma to design and write a web app to increase sales for a local, women & minority-owned art business

### Data Scientist Intern - Defence Science Technology Agency May-Jul 2021

Analyzed competing algorithms over intermittent, multivariate time series store data

### Software Engineer Intern - GovTech Singapore Feb-May 2021

Automated scanning of Indicators of compromise in infrastructure logs using AWS to identify security threats  
Coded monetary disbursement to citizens using serverless framework

### Coding Instructor - Code in the Community Jul 2020-Mar 2021

Taught children from underprivileged backgrounds Scratch and Python

## Projects

### signSpeak (Hack112 Hackathon) 2021

Used OpenCV and TensorFlow to detect ASL hand gestures and translate it into text and speech.

### La Barista 2021

Cafe restaurant game developed in Python. Incorporates OpenCV for drawing latte art, A\* search pathfinding algorithm to deliver drinks.

## Leadership and Activities

### ScottyLabs TartanHacks Dashboard Committee 2021 - Present

Implemented frontend API integration for TartanHacks (hackathon) on Flutter

### The Women's Network Marketing Committee 2021 - Present

Used Canva to produce and publish graphic design content to increase outreach

### Students' Science Research Council 2019-2020

Developed an Augmented Reality navigation application for school visitors by integrating GPS and SLAM tracking  
Won Bronze in the Singapore Science Engineering Fair and the SUTD Research and Innovation Award