

Vania Crystal Halim

vhalim@andrew.cmu.edu · www.linkedin.com/in/vania-halim · <https://github.com/vaniahalim> · (878) 999-6295

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

Managed and trained a team of developers to create an e-commerce website for local, minority-owned businesses

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