Vania Crystal Halim

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Education

Carnegie Mellon University
May 2025

B.S in **Information Systems** and **Artificial Intelligence**
Minor in **Business Analytics & Optimization**

Coursework:
- Principles of Functional Programming
- Principles of Imperative Computation
- Parallel and Sequential Algorithms

Imperial College London Business School
Summer School 2022
- Business Analytics
- Consulting & Strategy

Skills

Coding: Python · HTML CSS · JavaScript · SQL · C · LaTex

Tools: Unity · Figma

Certifications:
AWS Solutions Architect Associate ·
Microsoft Azure Data Fundamentals

Languages:

English	★ ★ ★ ★ ★
Mandarin	★ ★ ★ ★ ★
Bahasa Indonesia	★ ★ ★ ★
Malay	★ ★ ★ ★
French	★ ★ ★

Work Experience

15-112 Fundamentals of Computer Science TA *2022-Present*
Head of student support division -- created extra practice content, coordinated weekly small group sessions for struggling students. Mentored students to develop their own projects using Python

Data Science Intern - *Esme Learning May - Aug 20*
Developed a text analysis machine learning model to heighten end-user personalization

Tech Consultant and Project Manager - re:Bloom *2021- 2022*
Managed and trained a team of developers to create an e-commerce website for local, minority-owned businesses

Data Science 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

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.

Activities

Girls Who Code *2022 - Present*
Chief Marketing Officer. Developed and distributed social media content. Grew member count and club awareness. Increased participation and activity

ScottyLabs TartanHacks Dashboard Committee *2021 - Present*
Implemented frontend API integration for TartanHacks (hackathon) on Flutter