

# 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:

- Great Theoretical Ideas in CS
- 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

### Chief Marketing Executive (Capital Grains) Aug 2023 - Present

CMU's first student-run-and-driven restaurant startup. Spearheaded outreach and partnership initiatives in and out of CMU. Conducted on-the-ground feedback activities. Point of Contact with school management.

### Planning, Strategy, Data Intern (IMDA) June - Aug 2023

Developed the data pipeline from web scraping to visualization with Tableau. Conducted market research into GenAI's applications for local businesses. Assistant to Assistant Chief Executive

### 15-112 Fundamentals of Computer Science TA (CMU) 2022-2023

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 2022

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

## 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