VANIA CRYSTAL HALIM

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EDUCATION

ETH Zurich MSc Science, Technology, Policy & Computer Science	Sep 2025 – June 2026
Carnegie Mellon University B.S Artificial Intelligence, Information Systems & Business Analytics & Optimization	Aug 2021 – Dec 2024
Imperial College London Business School Business Analytics + Consulting & Strategy	May – Jul 2022
University College London Data Science and Analytics + Digital Business Transformation	Jul – Aug 2024
Hwa Chong Institution Cambridge A Levels	Jan 2019 – Dec 2020

WORK EXPERIENCE

Tech Consultant & Software Developer @ Centre for Organ Recovery & Education (IS Consulting Project)   Jan – May 2024
- Streamlined the employee onboarding and offboarding pipeline by developing a full web-based application and SQL database
- Automated the creation of Active Directory accounts with Powershell and other web-based accounts using Selenium
- Established API integrations that sped up the signing of hospital-related documents on DocuSign
- Created comprehensive documentation for the IT team to replicate and maintain the above solution
- Oversaw the entire project lifecycle from initial consultation with client to final User Acceptance Testing

Chief Marketing Officer @ Capital Grains CMU   May – Aug 2024
- Spearheaded marketing initiatives for CMU's first student-run restaurant startup business
- Increased social media following by 300%, strengthened branding and customer loyalty
- Developed on-the-ground outreach activities, liased with Compass Group (largest foodservice company in Europe)

Data Engineer Intern @ Infocomm Media Development Authority Singapore   Jun – Aug 2023
- Developed an automated data pipeline from data sourcing to cleaning and transformation to visualization
- Conducted research on GenAI's implications on the work landscape

Teaching Assistant (15-112 Fundamentals of Programming & Computer Science)   Aug 2022 – May 2023
- Head of student support division; wrote extra practice content, coordinated weekly small group sessions for weak students
- Mentored >20 students in developing their own Python-based applications (800-1000+ lines of code)
- Taught large group sessions (quiz prep, quiz solution) with 200+ students
- Held weekly recitations and office hours; built students' knowledge from basics to recursion and algorithms

Data Science Intern @ Esme Learning (Ed-Tech startup)   May – Aug 2022
- Developed a text analysis model using machine learning methods
- Implemented a machine learning flow for targeting business questions and improving internal processes

Tech Consultant and Project Manager @ re:Bloom (Non-profit organization)   Aug 2021 – May 2022
- Planned, oversaw and lead team's project to completion while maintaining close communication with clients

Software Engineer Intern @ GovTech Singapore   Feb-May 2021
- Automated the scanning of Indicators of Compromise (IP addresses, file hashes, URLs etc) in infrastructure logs using AWS Lambda, DynamoDB, and ElasticSearch to identify security threats
- Integrated the process of monetary disbursement to citizens using API calls, serverless framework, and other AWS services

ACTIVITIES

Girls Who Code CMU Executive Board Member   Present
- Grew member count by 200%, organized outreach events to empower young girls to learn technical skills

SKILLS & CERTIFICATIONS

Oracle Cloud Infrastructure 2024 Generative AI Certified Professional | AWS Solutions Architect Associate | Neo4j & LLM Fundamentals |
Python, C, HTML/CSS, JavaScript, SQL, Selenium, Ruby on Rails, LaTex, Radzen | Figma, Canva