



# Tan Tse Hao

**PROGRAMMING | DATA SCIENCE | ENGINEERING**

Proven quick learner and all-rounder with a passion for digital technologies. Motivated and eager to develop a career in software.



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A curious individual with an analytical mindset and a passion for learning. Motivated to excel and always on the lookout for a better solution. Effective communicator with clients and colleagues alike. Eager to grow and to make meaningful contributions with my expanding skill set and knowledge.

## EXPERIENCE

### NielsenIQ, Malaysia – Client Service Executive

MARCH 2020 - PRESENT

- Analysed/visualised retail data at varying levels of granularity to produce insights for clients to understand market trends and grow their categories
- Led the process of scoping client requirements and feasibility of delivery to achieve closure of deals worth ~204k USD in a complex sales environment over the course of less than a year
- Created dashboards/trackers/templates in GSuite/Salesforce to provide data insights and metrics in an accessible fashion and to minimise the repetition of work processes

### UsideU, Tokyo – Data Science Associate (Internship)

OCTOBER 2019 - DECEMBER 2019

- Developed a pipeline in Python for the generation of synthetic faces by blending facial features of selected key target faces using a neural network encoder and Nvidia's StyleGAN architecture for a product feature within 2-3 months
- Trained and evaluated convolutional neural networks in a project to classify fashion products based on images

### Monash University Malaysia – Research Assistant

JANUARY 2019 - FEBRUARY 2019

- Constructed a scaled-down model of an intelligent transport system in 2 months
- Programmed line-following robots in C++, a vehicle positioning camera program in Python, and an IoT system for inter-vehicular communication to navigate routes and avoid collisions with each other

### Top Glove Corporation Bhd, Malaysia – Engineering (M&E) Trainee

NOVEMBER 2017 - FEBRUARY 2018

- Designed and constructed a low-cost conveyor chain elongation monitor to aid preventive maintenance using Arduino microcontroller and sensors
- Conducted studies to verify the effectiveness of pH sensors, automate latex influx gates, and improve the efficiency of bearing changes

## EDUCATION

### Monash University Malaysia, Bachelor of Mechatronics Engineering (Honours)

OCTOBER 2015 - JUNE 2019

GPA/CGPA: 4.0 out of 4.0 | WAM: 88.138

## SKILLS

**Programming**  
Experience in/Familiar with:  
Python, C++, C, MATLAB, Google App Script

*Learning/Interested in:*  
C#, .NET, Java, SQL

**Data & Machine Learning Skills**  
MS Excel, Pandas, Matplotlib, Pytorch, Keras

**Other Soft Skills**  
Critical thinking, Attention to detail, Team player, Leadership

## AWARDS

**Debating Career**  
Uniten Debate Open 2013  
• Champion and Overall Best Speaker

World Schools Debating Championship 2013 Turkey  
• National Representative (Malaysia)

**Academic Awards**  
Best Graduate Award (Nov 2019)  
• Most outstanding academic performance in Nov 2019 graduation class for Mechatronics Engineering at Monash University Malaysia

## LANGUAGES

**English**  
• Speaking: Native  
• Reading/Writing: Proficient

**Mandarin**  
• Speaking: Conversational  
• Reading/Writing: Intermediate

**Malay**  
• Speaking: Conversational  
• Reading/Writing: Intermediate

**Japanese**  
• Speaking: Conversational  
• Reading/Writing: Intermediate