# Tan Tse Hao

**SOFTWARE DEVELOPER CONSULTANT**

*Proven quick learner, high performer, and all-rounder with a passion for software engineering and digital technologies.*

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## EXPERIENCE

### Guidewire Software, *Malaysia* – Software Developer Consultant

**NOVEMBER 2021 - PRESENT**

· **Currently the de-facto technical configuration lead/SME on an implementation project** for one of the largest reinsurance companies in the world after developing broad and in-depth knowledge of a complex Policy Administration System software in <1 year

· **Independently developed complex high-value features** (eg. premium calculation services, document production, free-text search, data migration orchestration etc.) while guiding the customer to ensure business requirement alignment, resulting in consistent positive feedback across all project stakeholders over a period of >2.5 years

· **Designed and implemented new integrations with critical downstream/upstream systems** (eg. BI, accounting, single sign-on, data migration) using REST APIs, multi-threaded batch processes, and event-driven messaging frameworks

· **Swiftly identified and resolved long-standing high-priority defects**, improving data integrity, system correctness, availability, and security

· **Executed major codebase refactors to minimise pre-existing technical debt**, increasing simplicity of API usage, ease of code maintenance, and code performance

· **Mentored client and colleague developers** on coding patterns, version control, and product knowledge via peer review and knowledge transfer sessions to ensure the propagation of a healthy and sustainable software engineering culture

### NielsenIQ, *Malaysia* – Client Service Executive

**MARCH 2020 - OCTOBER 2021**

· **Independently developed a data visualisation dashboard with an automated data pipeline using Google Sheets/Apps Script** to provide an overview of FMCG market trends

· **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 within less than a year

### 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

### 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

## 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**
*Experienced in:*
Java, Gosu, Git, Object-Oriented Programming (OOP) principles, Design patterns, REST APIs, SQL

*Familiar with:*
Spring, Gradle, Azure Devops, AWS, Docker, Solr, Python, C++, Typescript/Javascript, React, System design, Scrum

*Learning/Interested in:*
C#, NoSQL, Go

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

## CERTIFICATIONS

Oracle Certified Associate, Java SE 8 Programmer (1Z0-808)

## 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*: Basic