

# Tey Sui Zer

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## Profile Summary



Name: Tey Sui Zer

Age: 23

Nationality: Malaysian

Address: 11, Jalan Lawa 17, Taman Pelangi Indah, 81800 Ulu Tiram, Johor.

About me: Fast learning and dedicated person who aim to work in the big tech industries. Coming from a geoinformation background, I deal with spatial problems and have gained real working experiences, and built a lot of soft skills. I have grown interests in programming, data analysis.

## Education Background

**University Technology of Malaysia**

Sep 2018 – July 2022

- Bachelor (Hons) Geomatic Engineering

3.70/4.00

## Projects & Portfolios

- Coordinate Transformation module** -- Python  
Created a coordinate transformation module in exe file that can batch processing, converting data between geographical coordinates and 3-Dimensional coordinates using PyQt5.
- GIS web map for EV Charging Stations Researches** – Python, MySQL  
Simulated a web GIS application that shows web map with POIs on HTML using Python Django. Data scraped from internet, wrote into MySQL database hosted by GCP. <https://tey.pythonanywhere.com/>
- 3D Point Cloud Model Clustering** -- Python  
With Open3D library, applied RANSAC algorithm to segment walls, then applied DBSCAN to detect unlabelled 3D point cloud data into objects. (Unsupervised clustering and simple automation processes)
- Satellites Orbit Computation and Visualisation** -- MATLAB  
Post processed RINEX raw data from satellite signals, then used MATLAB to compute the epoch, coordinates of satellites and finally visualise satellites orbits in figure.
- Web map with address locator, route services etc.** -- JavaScript  
Simulated map display, basemap switch, address locating, navigation. It was designed to be integrated with APIs from GIS SDK, such as MapBox, leaflet, OpenLayers. <https://suizer98.github.io/mapdemo/>

## Software & Specialities

- Engineering Software**  
AutoDesk CAD (Expert), AutoDesk Recap (Intermediate), AutoDesk Revit (Beginner), CDS (Expert), ArcGIS Pro (Intermediate), ENVI (Beginner), QGIS (Beginner), Pix4D (Beginner)
- Programming**  
Python (Intermediate), R (Beginner), MySQL (Beginner), JavaScript (Beginner), MATLAB (Intermediate), C++ (Beginner)
- Computer**  
Microsoft Word (Expert), Excel (Expert), Power Point (Expert), Access (Beginner), Tableau (Beginner)
- Language**  
English (Expert), Chinese (Expert), Malay (Expert)

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## Working experiences

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### JK Land Consultant Sdn. Bhd.

Drafter

Jan 2021 - Mac 2022

- Wrote technical proposal for carrying out 3D laser scanning on historical buildings in Malaysia.
- Analysed and compiled data acquired from Ground Penetrating Radar (GPR) for utilities mapping.
- Produced underground utility topographical maps for proposed HDD cables requested by clients.

Geomatics Trainee (INTERNSHIP)

July 2021 - Sep 2021

- Carried out various demarcation and land title, engineering survey jobs, ensure good quality of data.
- Involved in underground utility engineering survey using Electromagnetic Pipe Locator.
- Out stationed for hydrographic survey. (magnetometer and multibeam)

Geographer Analyst

July 2020 - Sep 2020

- Carried out digitizing, analysis of UAV. Post-processed UAV, hydro, stockpiles, 3D TLS point cloud data. Produced plans of proposed telecommunication tower location and radio ranges using CAD.
- Converted data points from ASCII format into recognisable coordinates to be imported into software.

Geospatial Engineer

July 2019 - Sep 2019

- Involved in settlement monitoring for luxury coastal bungalows located in reclamation area, Forest City.
- As a data entry clerk to enter all elevation information for building in Forest City into Microsoft Excel.
- Compiled the elevation of buildings in Excel, computed the velocities of subsidence and do analysis.

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## Non-Engineering Skills & Co-Curricular Activities

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Vice President, Dart Club in SMK Johor Jaya 1

2016 - 2017

- In charge of the dart competition events. Make sure program flows in order. Earned runner up award.

Grab Geo\*Star UTM Competition

Apr 2022 – Jun 2022

- Research Topic: Visualising relationship between EV Charging Stations and Economic Area using web GIS. 2<sup>nd</sup> place in individual category, 4<sup>th</sup> place overall.

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## Courses & Certificates

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- **Survey of Python in GIS applications**

Udemy – Issued Apr 2021

Credential ID: [UC-4ade2c59-4228-4f1f-bde2-5b3584acaffe](#)

- **Deploying a Python Data Analysis web app on Heroku**

Coursera – Issued May 2022, website: <https://gss-tey.herokuapp.com/>

Credential ID: [W78K8TZDB5UK](#)

- **Build a Machine Learning Web App with Streamlit and Python**

Coursera – Issued May 2022, website: <https://binaryml.herokuapp.com/>

Credential ID: [SV4HVGJVJBRN](#)

- **Graduate Admission Prediction with Pyspark ML**

Coursera – Issued Jun 2022

Credential ID: [RF74XYM9WTJ3](#)

- **Google Data Analytics: Analyze Data to Answer Question**

Coursera – Issued July 2022

Credential ID: [V24SUKSLCB5W](#)

- **Introduction to Cybersecurity**

Cisco – Issued July 2022

Credential ID: [75a6faa2-f844-4c19-97df-6b6d49e7c92c](#)