

# Tey Sui Zer

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## Profile Summary

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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. I worked as a Geospatial Engineer, has gained many real working experiences, gave solutions for encountered issues. Have big passions in learning Machine Learning and Data analysis.

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## Education Background

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University Technology of Malaysia

Sep 2018 – July 2022

- Bachelor (Hons) Geomatic Engineering

3.70/4.00

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## Projects & Portfolios

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- **Coordinate Transformation module**  
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**  
Simulated a web GIS application that shows OpenStreetMap with shapefiles, GeoJSON and POIs on HTML using Python Django. <http://tey.pythonanywhere.com/>
- **Web Scraping for database.**  
Using Python Selenium, web scraped long addresses of fast food branches, geocoded them with Google Geocoding API, then write into MySQL, server hosted by GCP.
- **3D Model Object Detection**  
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**  
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.

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## Software & Specialities

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

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## Working experiences

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### Jurukur Khoo Sdn.Bhd.

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)

Geospatial Engineer

July 2019 - Sep 2019

- Involved in settlement monitoring for all luxury coastal bungalows located in reclamation area of Forest City project by Country Garden Holding Ltd.
- Involved in stockpiles survey for rocks etc. and post-processed of data acquired, computed the volumes.
- Compiled the elevation of buildings in Excel, compute the velocities of subsidence and do analysis.

### Magic Mapper Sdn.Bhd.

Drafter

Dec 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.

Geographer Analyst

July 2020 - Sep 2020

- Worked with various engineers to be responsible in data collection, data entry, and data registration in different scenarios of sites.
- 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.

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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. Participated in competitions up to district level. 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. Third prize confirmed.

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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 Apr 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: [SV4HVGGVJBRN](#)

- **Graduate Admission Prediction with Pyspark ML**

Coursera – Issued Jun 2022

Credential ID: [RF74XYM9WTJ3](#)