Tey Sui Zer

+60 1128655756 • teysuizer1998@gmail.com • Github Portfolio • Linkedin • (Private & Confidential)

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 have gained many real working experiences, built a lot of soft skills and gave solutions. I have grown passions in programming, data analysis and ML.

Education Background

University Technology of Malaysia   Sep 2018 – July 2022
- Bachelor (Hons) Geomatic Engineering   3.70/4.00

Projects & Portfolios

- **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 Point Cloud Model Clustering**
  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.

- **3D Object Detection Streamlit Web App Based on Objectron**
  Simple 3D object detection web app like cup was built on Streamlit. With the aid of OpenCV, webcam is utilised to acquired 2D frame for object detections. Parameters can be adjusted by users.

Software & Specialities

- **Engineering Software**
  AutoDesk CAD (Expert), AutoDesk Recap (Intermediate), AutoDesk Revit (Beginner), CDS (Expert), ArcGIS Pro (Intermediate), ENVI (Beginner), QGIS (Beginner), Pix4D (Beginnner)

- **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)

Working experiences

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 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.

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

- 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.

Non-Engineering Skills & Co-Curricular Activities

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. Third prize confirmed.

Courses & Certificates

- **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