Ümmü Sude Yıldırım

Geomatic Engineer

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EDUCATION

Geomatic Engineering
Hacettepe University

09/2018 - 07/2023 *3,09*

WORK EXPERIENCE

Part-time GIS and Test Engineer
Teosoft Geographic Information Systems

08/2022 - 12/2022 *Ankara*

Achievements/Tasks

- In charge of managing the database. (PostgreSQL/ MsSQL)
- Migrated spatial PostgreSQL database to MsSQL.
- Created new layers to be used in the company project.
- In charge of the company project's testing of the GIS part. (WMS/WFS layers, GIS tools for the map, etc.)
- Manual testing of the company project's functional components.
- Created the automation testing framework of the company which utilizes Selenium.

Contact : Onur BASAL - onurbasal_tr@yahoo.com

Part Time Work Student
Hacettepe University

12/2021 - 03/2022 *Ankara*

Achievements/Tasks

- In charge of the computer labs.

Intern and Part-time Worker
GIS and Software/ OdakGIS

06/2021 - 10/2021 *Ankara*

OdakGIS - Inspiring The Community, Gültaş Yazılım Harita

Achievements/Tasks

- Edited datasets in PostgreSQL and MsSQL.
- Published layer, SQL queries and maps in Geoserver.
- Connected maps with databases using QGIS.
- Full-stack web development using ASP.NET Web API and Angular.

Contact : Geomatic Engineer Merve Durmaz and Computer Engineer İrem KÜREKÇİ

SKILLS

ArcMap | C# | Python | Matlab | QGIS | PostgreSQL | Selenium | MsSQL | Erdas Imagine | English | Django

PERSONAL PROJECTS

Building Information System (03/2023 - 06/2023)

- This project leverages the Django web framework to seamlessly integrate the Folium and Leaflet libraries, enabling the creation of interactive maps. GeoJSON layers have been incorporated to accurately depict vector data on the maps. The point data has been diligently managed and stored utilizing the SQLite database. The project has been meticulously developed using the Python programming language, with meticulous attention to detail in the design and implementation of CSS and JavaScript for enhanced aesthetics and interactivity.

Detection and Analysis of Agriculture Land Change using NDVI and EVI Indices (05/2023 - 06/2023)

- This project focuses on using NDVI and EVI indices to detect agricultural areas and monitor their changes over time. By analyzing Landsat-8 OLI satellite imagery, the study aims to assess vegetation health and density. The results indicate a decline in agricultural lands, which has implications for food security and the environment.

Senior Project (Building Footprint Extraction: Accurate Building Footprints from LiDAR Data) (09/2022 - 06/2023)

- Building Footprint Extraction from LiDAR Data project aimed to accurately extract building footprints from LiDAR data. The project output was a 2D building map in GeoJSON or TIFF format. Challenges included data compatibility and technical limitations, which were addressed through refined algorithms.

Design of a Web-Based Geospatial Data Management Project Using Open Geographical Technologies (01/2022 - 05/2022)

- The US Hospital project that I did was found as the most successful project in the 2021-22 Fall Semester Spatial Data Management course at Hacettepe University. My project was submitted to the Turkish National Photogrammetry Remote Sensing Union Technical Symposium (TUFUAB'22) as a paper and I have made my presentation.

Hospitals of USA (01/2022 - 02/2022)

- https://github.com/papulli33/Hospitals-of-US

Immovable Project (08/2021 - 10/2021)

- Gained proficiency in using ASP.NET Web API Angular, PostgreSQL.
- Connected all three to understand how they behave in a single project.