Robert Tulmen

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EDUCATION

Master of Science, Geospatial information Sciences

The University of Texas at Dallas

08/2024 - Present Richardson, United States

GPA
3.6 / 4.0

Bachelor of Science, Information Technology

The University of Texas at Dallas

08/2019 - 12/2023 Richardson, United States

EXPERIENCE

Tech Experience and Innovation

The University of Texas at Dallas

08/2024 - Present Richardson, United States

- Collected, prepared, and presented visualizations using social media metrics to qualify which content strategy is most effective per social media platform
- Analyzed historical datasets using linear regressions and moving averages to project follower growth
- interpreted results to reveal increases in click-through rates, reach/impressions to present findings to senior leadership for strategic planning
- Trained and assisted student workers on ticketing system, data collection, and general office of information technology operations

Data Analyst

AER Manufacturing

08/2023 - 07/2024 Addison, TX

- Increased processing efficiency by 20% through comprehensive invoice correlation documentation
- Communicated with varied departments to organize, digitize, and file ACH vendor invoices and automate the accounts payable process to move toward a paperless environment

ACADEMIC PROJECTS

Invasive Species in Remote Páramos in the Andes Region

03/2025 - 07/2025 Cusco, Peru

- Used satellite imagery from USGS's Earth Explorer and ArcGIS Pro for terrain suitability for different species of llama and alpaca to thrive in employing raster calculator and hill shading techniques to generate different quality DEM's

External Auditing Using UAS imaging

03/2025 - 07/2025 Highland Park, United States

- Using Drone2Map and ESRI's ArcGIS Pro, scanned external walls of commercial buildings using hundred's of images to identify tie points and their RMSE values to get the most accurate 3D representations for general wear and tare

Human Detection using Machine Learning and AI

11/2024 - 12/2024 Dallas, United States

- Using ESRI's in-house ML functions and AI training software to create and train an AI model that could detect humans from the air within a range of 30 m

Highlighting Highland Park's Wealth Disparity Using Geographic Weighted Regression Models

11/2024 - 12/2024 City of Highland Park, United States

- Using data from NHGIS, Zillow, and the City of Highland Park GIS to create detailed maps alongside geographic weighted regression models to visualize and explain income disparities in the Dallas region

SKILLS

Python | **R** | **ArcGIS** | **ArcGIS Pro** | **ArcGIS Online** | **Microsoft Office Suite** | **Tableau Suite** | **QGIS** | **Geospatial Analysis** | **Data Transformation** | **Machine Learning** | **Data Visualization** | **Statistical Analysis** | **Remote Sensing** | **AI Implementation**