

SUMMARY OF QUALIFICATIONS

- Proficient at mixed-method data analysis, and synthesizing large quantities of data
- Meticulous attention to detail in research, experience in spatial analysis, modeling, data analytics, data management, and environmental science.
- Able to work independently and in a team, excellent problem solver, capable technical writer.
- Proficient in various GIS technologies, programming languages, and computer science concepts.

TECHNICAL SKILLS

- C++, Python, JavaScript, SQL, PHP, HTML/CSS, AWS, Pandas, matplotlib, Flask, Jinja2, Django
- Geographic data analysis, big data analysis, data solutions, data modeling, machine learning
- MySQL, PostgreSQL, pgAdmin4, SQLite

EDUCATION

Master of Applied Geography in GIS

August 2019

Texas State University, San Marcos, Texas

Focus: GIS/Algorithm Development

GPA: 3.9

Relevant Coursework: Multivariate Quantitative Methods, Web Mapping, Technical Foundations in GIS, Geographic Information Systems II (Python), Exploring Spatial Databases

Bachelor of Science, Major in Physical Geography

May 2017

Texas State University, San Marcos, Texas

Minor: Geology

GPA: 3.66

PROFESSIONAL EXPERIENCE

Graduate Research Assistant

Aug 2017 – Aug 2019

Texas State University, San Marcos, Texas

Assisted in the research of Jewish survivors found in the Budapest ghetto and producing GIS layers detailing their locations. Various python packages were used to normalize the addresses and process the data to determine their locations. The GIS layers and associated data were normalized, and a spatial database was created to house the data.

Undergraduate Research

Jan 2017 – May 2017

Texas State University, San Marcos, Texas

Assisted in the research and creation of land cover classification layers of counties found in southeast Texas. Utilized supervised machine learning concepts remote sensing technologies to create several GIS layers.

PROJECTS

Budapest App

Nov 2019 – Present

Texas State University, San Marcos, Texas

Project: Budapest Webmap

Software/Skills: leaflet.js, PHP, MySQL, SQLite, AWS, Ajax,

Pathfinding Webapp

Oct 2019 – Nov 2019

Personal

Project: Pathfinding Webapp

Software/Skills: Pathfinding algorithms, python, Javascript, HTML, CSS, Ajax, Flask,

Master's Research

Aug 2018 – Present

Texas State University, San Marcos, Texas

Project: Methodology and Algorithm Development for Historical Addresses

Software/Skills: Python, Javascript, HTML/CSS, SQL, GIS, regex, data normalization, geocoding,

GIS II (Python)

Jan 2019 – May 2019

Texas State University, San Marcos, Texas

Project: Exploring Expressions of Loneliness and Indication of

Depression from Social Media Data Using String Matching Algorithm

Software/Skills: Python Language, ArcMap, Natural Language Toolkit, Fuzzywuzzy, Tweepy, Pyproj, Arcpy, Tkinter

Exploring Spatial Databases

Jan 2019 – May 2019

Texas State University, San Marcos, Texas

Project: Creating a Spatial Ontology of Jewish Survivors in Budapest

Software/Skills: StarUML, protégé/WebVOWL, pgAdmin4, Psycopg2, Pandas

ORGANIZATIONS

- President/PR, Gamma Theta Upsilon Honor Society Aug 2015 - May 2019
- Vice President, Society of Geographic Information Systems Aug 2015 - May 2019
- President, Geography Organizations Council Aug 2016 - May 2017
- Masters Representative, Graduate Forum Aug 2017 - May 2019
- Undergraduate Committee Student Representative Aug 2016 - May 2017
- Liberal Arts Committee Geography Representative Aug 2018 - May 2019
- Texas State Student Research Symposium Student Coordinator Aug 2017 - May 2019

HONORS AND AWARDS

- Detlefsen Graduate Geography Scholarship May 2018
- Detlefsen Geography Scholar May 2016
- Liberal Arts Award May 2016
- SOGIS Map Contest 1st place Aug 2015
- Dean's List Aug 2014 - May 2017
- Gamma Theta Upsilon Outstanding Service Award May 2017