Anugra Shah

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SKILLS

Web Dev (React, Node.js)
Mapbox, Leaflet.js, Turf.js
Python (Flask)
SQL
R/RStudio
Spatial Data Science

Google Earth Engine
ArcGIS Pro/Online
QGIS
Adobe Suite
Git
Tableau/FME/Alteryx

Photography
Videography
Drone Pilot

EDUCATION

HONOURS GEOMATICS MINORS IN COMPUTER SCIENCE & URBAN STUDIES
University of Waterloo, Waterloo ON
September 2014 - April 2022

RELEVANT EXPERIENCE

BORDERLINE PROJECT - UWATERLOO
WATERLOO, ON

Geospatial Researcher
January 2021 - Ongoing

- Leveraged knowledge of REST API's to create endpoints that serve the Borderline iOS app using Python.
- Identified spatially significant correlations (using Getis Ord Gi*) and presented mapped findings at the InfoPlus 2021 Conference.
- Conducted spatial data wrangling and management to prepare analysis-ready datasets for further exploratory analysis.

TD BANK
TORONTO, ON

Distribution and Geospatial Intelligence Analyst
September 2020 - December 2020

- Identified regions of market opportunity worth $25 million across Canada, based on Environics Analytics data products.
- Conducted financial viability analysis for 7 new branch openings, using socio-demographic census and internal customer data.
- Created web GIS dashboard for daily updates of COVID-19 cases and its impacts on the TD branch network. Used regularly for pandemic planning by executives.

ENVIRONMENT AND CLIMATE CHANGE CANADA GATINEAU, QC

Junior Data Analyst - GIS
April 2019 - August 2019

- Worked with large amounts of climate, soil and land use change data to conduct various GIS tasks such as visualization, data mining, predictive modelling and georeferencing.
- Developed a predictive linear model that estimates CO_2 emissions from cropland sources all across Canada.
- Contributed data analysis and designed maps for major presentation in front of the UNFCCC conference in the US.

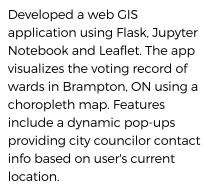### WUNDERMAN THOMPSON
TORONTO, ON

Junior Web Developer
April 2017 - November 2018

- Contributed web development (Vanilla JS) and support to large scale enterprise websites: Mazda.ca and Hotels.com.
- Built HTML banner ads and landing pages using Javascript/CSS animations for Mazda, Air Canada, HSBC, Johnson & Johnson and Shell Canada.
- Developed an automation program using Python that reduced repetitive work and sped up all project delivery by 20 hours.

PROJECTS

MyGov - Spatial Data Visualization Web App

Developed a web GIS application using Flask, Jupyter Notebook and Leaflet. The app visualizes the voting record of wards in Brampton, ON using a choropleth map. Features include a dynamic pop-ups providing city councilor contact info based on user's current location.

GuessThatCountry - Geography Web Game

Responsive web based geography game. Each round a random country is displayed, and player has 5 hints (direction, distance) to determine the country. ReactJS frontend supported by LeafletJS, Turf.js and Mapbox libraries. Flask backend API for geographic calculations such as Great Circle distance and Rhumb bearing direction. Hosted on Heroku.

Spatial Analysis of Noise Complaints Data - NYC

Identified spatially significant correlations (using Getis Ord Gi*) between noise complaints and the geographic distribution of marginalized people in New York City. Created GIS dashboard to present findings and induce further analysis and research. Presented findings at the InfoPlus 2021 Conference.