Jan Voltaire Vergara

(845)300-0507 • jv11699@gmail.com • linkedin.com/in/voltaire1vergara11

EDUCATION

University at Buffalo, The State University of New York **(Overall GPA:** *3.84*, **Major GPA:** *3.9* **)**

Bachelor's in Computer Science & Minor in Statistics, Expected Fall 2021

HONORS

- University at Buffalo Honors College
- Tau Beta Pi Engineering Honor Society

SKILLS

Computer Skills: Git, Adobe Photoshop, Microsoft Word Excel, Linux, Jupyter Notebook, PySpark, Hadoop, React, Flask
Programming Languages: Python, JavaScript, Java, C++, Visual Basic, C, Scala , R, STATA, MiniTab, Tableau, Dash
Professional Skills: Equanimity, Leadership, Communication, Teamwork, Organization, Responsible and Highly Motivated, Independent
Languages: Fluent in English, and Tagalog.
Relevant Coursework: Software Engineering, Artificial Intelligence, Machine Learning, Data Intensive Computing, Computational Investing Algorithms for Modern Computing Systems, Algorithms and Design, Linear Algebra, Statistical Inference.

PROJECTS

A Study on Forecasting Residential Displacement in a Major City in the U.S. - https://arxiv.org/pdf/2111.14915.pdf**,** University at Buffalo

- The aim of the project is to use data science and machine learning to help solve the rising residential displacement that is happening in Buffalo by creating a model that will identify potential neighborhoods that might undergo undesirable demographic change.
- Used novel spatial data analysis techniques and spatial autocorrelation measures.
- Utilized different state-of-the art machine learning techniques such as XOR, MNIST, TPOT etc.
- Feature engineered spatial covariates for the models that helps explain endogenous gentrification.
- Created weekly presentations and reports to show ideas and visualizations to the team.
- Made various spatial maps with different data taken from the US census that visualizes the rapid change that is going on in Buffalo.
- Created web scrapers and used APIs that extract data from government websites to obtain tax entries, public records, Annual property tax assessments, individual house owner history and their considerations, etc.
- Presented work on prestigious conferences and in review for prestigious journals.

Foodsomnia - https://github.com/CSE442-Foodsomnia/Foodsomnia_website**,** University at Buffalo, Fall 2021

- Worked with a team of 5 and a project manager to create a web-application for a software engineering class using product management tools such as zenhub to be in an AGILE project management environment.
- Frontend and Backend developer using technologies such as Flask, Jinja2, Django and postgreSQL and CSS, and javascript.
- Written test cases for each feature/functionality of the web application.
- Deployed our project in cloud application platforms such as Heroku.
- Worked as part of a SCRUM team and efficiently communicated in order to complete sprints, thereby preparing for sprints and effectively establishing sprint backlogs.

WORK EXPERIENCE

University at Buffalo, Buffalo, New York

Full-Stack Developer - https://github.com/geoai-lab/GeoAnnotator**,** December 2021 – Present

- Used technologies such as Flask/Django, postgreSQL, and React to create a working website that aids researchers in annotating disaster-related tweets.
- Implemented secure database encryption and session based authentication for users.
- Created a BERT Neural Network (NLP) that was designed to recognize sections of a tweet that mention a location and the sentiment of the message.
-

Westminster Charter Elementary School, Buffalo, New York

Volunteer, September 2018 – February 2020

- Conduct bi-weekly classroom lectures at Westminster Community Charter School.
- Discuss teaching strategies among fellow volunteers that assures the success of the program.