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Education_____

Vanderbilt University Nashville, TN

B.S. IN COMPUTER SCIENCE August. 2016 - Exp. May. 2020

Work Experience_

Vanderbilt Institute of Software Integrated Systems

Nashville, TN

May. 2019 - July. 2019

- · Implemented machine learning algorithms (HAC, HDBSCAN, PCA, etc.) with Python to spatiotemporally analyze the traffic incident factors and to further predict incidents in Nashville.
- · Developed a 3D data visualization model of aggregated data using kepler.gl to visualize traffic accidents in Nashville.

Vanderbilt Department of Civil and Environmental Engineering

Nashville, TN

Undergraduate Research Assistant

Mar. 2019 - Present

- Designed and implemented a web application to provide a platform for stakeholders to evaluate a variety of sustainable and economically feasible options for managing municipal solid waste using Vue. is and Firebase.
- Implemented a matrix for simplified LCA of waste management with AHP to analyze stakeholders' pairwise comparisons.
- · Developed Python scripts to scrape data for real-time power outage data and affected customers.

Projects.

Decision Together Web Development

JAVASCRIPT June. 2019

- · Developed a web application to evaluate the preferences of criteria and alternatives for MSW management systems to implement in Middle Tennessee.
- · Analyzes stakeholders' preferences and consistencies by implementing comparison matrices and calculating principal eigenvectors.
- Implemented front-end with Vue.js, and back-end with Firebase.

FEH-api **REST API**

PYTHON April. 2019

- Developed a Python script using Scrapy-Splash to scrape https://fireemblem.gamepress.gg/ for Fire Emblem Heroes units' information.
- Implemented REST API with user authorization by incorporating Flask-RESTful and SQLite.

gaja iOS Development

Feb. 2019

- · Developed an iOS app to store categories of lists of favorite locations in a database, and conveniently locate those categorized places on a map by integrating API services.
- · Incorporated Google Maps API, Google Places API, and Realm database to search and map desired locations.

Skills_____

SWIFT

Languages C++, Python, JavaScript, Java, HTML, CSS

Technologies Git, Firebase, Vue.js, REST API, Flask, NodeJS, Amazon Web Services (AWS), Bash, iOS Development, Web Scraping

Campus Involvement_

Vanderbilt League of Legends

PRESIDENT, FORMER TREASURER

Vanderbilt University March. 2018 - PRESENT

- · Directed the organization to foster, develop, and educate the gaming community of 200+ members on campus.
- Coordinated tournaments against other universities across the nation, as well as local tournaments.

DataBrains Vanderbilt University

BOARD OF PROJECTS Sep. 2018 - Dec. 2018

- Managed the club's projects for undergraduates interested in Artificial Intelligence and Data Science and allow students to explore and learn about the industries.
- Formed teams of different projects and ensure each team is working effectively to make meaningful projects using AI and Data Science.