

Jacob Park

SOFTWARE ENGINEER · COMPUTER SCIENCE MAJOR

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Education

Vanderbilt University

B.S. IN COMPUTER SCIENCE

Nashville, TN

August. 2016 - Exp. May. 2020

Skills

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

Technologies React.js, Node.js, Vue.js, MongoDB, REST API, Firebase, Git, Flask, Amazon Web Services (AWS), Web Scraping

Work Experience

Vanderbilt Institute for Software Integrated Systems

Nashville, TN

RESEARCH INTERN

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 - Dec. 2019

- Designed and implemented a web application to provide a platform for stakeholders to evaluate a variety of sustainable and economically feasible options for waste management in Nashville.
- 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

Junimo | junimobot.github.io

Discord Bot

NODEJS

Dec. - Jan. 2019

- Designed and developed a Discord bot, Junimo, to serve various functionalities for the Stardew Valley community.
- Built NodeJS integration with external REST APIs, and data persistence with MongoDB.
- Reached 12,000+ active users, and hosted the bot on an AWS EC2 instance.

Seonbae | git.io/seonbae

Full Stack Development

MERN STACK

July. 2019

- Created a web application to provide a platform for alumni networking to help students in respective universities land jobs.
- Developed internal REST API for user authorization with JWT authentication, as well as user functionalities to manage posts.
- Implemented front-end with React.js, and back-end with Node.js, Express.js, and MongoDB.

Decision Together | git.io/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 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.

gaja

iOS Development

SWIFT

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.

Campus Involvement

Vanderbilt League of Legends

Vanderbilt University

PRESIDENT, FORMER TREASURER

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 and events.
- Orchestrated advertisement campaigns increasing tournament and event turnout by 50%.