

# Jacob Park

SOFTWARE ENGINEER · COMPUTER SCIENCE MAJOR

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## Education

### Vanderbilt University

B.S. IN COMPUTER SCIENCE

Nashville, TN

August. 2016 - May. 2020

## Skills

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

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

**Certifications** AWS Certified Cloud Practitioner

## Work Experience

### Maximus

SOFTWARE ENGINEER

Reston, VA

Aug. 2020 - Present

### Vanderbilt Institute for Software Integrated Systems

RESEARCH INTERN

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

UNDERGRADUATE RESEARCH ASSISTANT

Nashville, TN

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. | [git.io/decision-together](https://git.io/decision-together).
- Implemented front-end with Vue.js, and back-end with Firebase
- Developed Python scripts to scrape data for real-time power outage data and affected customers.

## Projects

### Junimo | [junimobot.github.io](https://junimobot.github.io)

NODEJS

Discord Bot

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 webhooks, and data persistence with MongoDB.
- Reached 20,000+ active users, and hosted the bot on an AWS EC2 instance.

### Seonbae | [git.io/seonbae](https://git.io/seonbae)

MERN STACK

Full Stack Development

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](https://git.io/decision-together)

UNDERGRADUATE RESEARCH ASSISTANT

Full Stack Development

July. 2019

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

## Campus Involvement

### Vanderbilt League of Legends

PRESIDENT, FORMER TREASURER

Vanderbilt University

March. 2018 - May. 2020

- 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%.