# Jacob **Park**

SOFTWARE ENGINEER · COMPUTER SCIENCE MAJOR

949-293-1038 | soobinjppark@gmail.com | soobin.me | soobinjppark | soobinjppark

## Education

**Vanderbilt University**                                                                                                          *Nashville, TN*
B.S. IN COMPUTER SCIENCE                                                                                                  *August. 2016 - May. 2020*

## Skills

**Languages**     **C++**, JavaScript, Java, Python, SQL, HTML, CSS
**Technologies**   Node.js, Amazon Web Services (AWS), React.js, Vue.js, Spring Boot, MongoDB, REST API, MySQL, Docker, Git
**Certifications**  AWS Certified Cloud Practitioner, AWS Certified Developer - Associate, AWS Certified Solutions Architect - Associate

## Work Experience

**Maximus**                                                                                                                          *Reston, VA*
SOFTWARE ENGINEER                                                                                                        *Aug. 2020 - Present*
- Designed and implemented backend REST APIs for an invoice portal with Java, Spring Boot, and AWS (heavily leveraging S3, DynamoDB, and Fargate).

**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.
- 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 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**                                                                                          *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 with Node.js and Express.js.
- Implemented front-end with React.js, and data persistence with MongoDB.

**Decision Together | git.io/decision-together**                                                                        *Web Application*
VUE.JS                                                                                                                          *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**                                                                                    *Vanderbilt University*
PRESIDENT, FORMER TREASURER                                                                                          *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%.