Jacob **Park**

SOFTWARE ENGINEER · COMPUTER SCIENCE MAJOR

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Education

Vanderbilt University *Nashville, TN*

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

Skills

Languages	C++, Golang, Java, JavaScript, 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

Visa *Foster City, CA*

SOFTWARE ENGINEER *Mar. 2021 - Present*

Maximus *Reston, VA*

SOFTWARE ENGINEER *Aug. 2020 - Mar. 2021*

- Designed the architecture for a highly-distributed web application and implemented backend REST APIs using Java, Spring Boot, and AWS (heavily leveraging S3, DynamoDB, and Fargate).
- Collaborated with cross-team representatives to deliver the functionalities to meet the needs for the end users.

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 *Jan. 2020*

- 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 *May. 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.