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Education_

Vanderbilt University Nashville, TN

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

Skills

Languages C++, TypeScript, JavaScript, Go, Java, Python, SQL, HTML, CSS

Technologies Node.js, React.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_

Amazon Irvine, CA / Remote

SOFTWARE DEVELOPMENT ENGINEER

Visa Foster City, CA / Remote

SOFTWARE ENGINEER Mar 2021 - Present

- Developed and maintained highly-distributed backend systems powering Open VisaNet using Go and Docker.
- Developed and tested backend APIs for Open VisaNet's Pre-Authorization and CAVV Services.
- Initiated OVN Knowledge Compendium to share expertise and foster collaboration between team members.

Maximus Reston, VA / Remote

Aug. 2020 - Mar. 2021 SOFTWARE ENGINEER

- Designed the architecture for a 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

Dec. 2021 - Present

RESEARCH INTERN

May. 2019 - July. 2019

- · Implemented machine learning algorithms 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, using Vue.js and Firebase. git.io/decision-together
- Analyzed stakeholders' preferences and consistencies by implementing comparison matrices and calculating principal eigenvectors.
- · Developed Python scripts to scrape data for real-time power outage data and affected customers.

Projects.

Junimo | junimobot.github.io

Discord Bot

July. 2019

NodeJS

MFRN STACK

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

- Created a web application to provide a platform for alumni networking to help students in respective universities land jobs.
- Implemented front-end with React. is, and back-end with Node. is, Express. is, and MongoDB.