

LOC NGUYEN

Case Western Reserve University

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PROFESSIONAL EXPERIENCE

Amazon Web Services - Software Development Engineer Intern, *Seattle, WA* Now - Nov 2021

- Working in EC2 Networking Data Plane team to maintain and improve services scalability, efficiency, and availability in ELB (Elastic Load Balancing)
- Developed DNS Health-check application with Route53 failure rate data sources to monitor and alarm failed API calls from Data Plane services as well as mechanism to early detect failure trends using Java
- Developed an alarm dashboard to keep track of Route53 failures in order to investigate and mitigate using JQuery
- Reduced 27% API canary failures investigation backlog and helped the team to deploy needed mitigation to increase availability rate for downstream services and consumers

Techstacks: Java, Java Concurrency, AWS CloudWatch, AWS DynamoDB, Kafka, JQuery

Roku - Software Engineer Intern, *San Jose, CA* May 2021 - Aug 2021

- Streamlined data sharing process between Roku's QA team and manufacturers by designing and developing a lightweight front-end portal using React
- Improved the TV manufacturing process by 15% which leads to more Roku TV activations
- Communicated frequently with Roku's QA teams around requirements, features and technical designs
- Integrated APIs into front-end for features like downloading and uploading files to and from AWS S3, getting and syncing data between portal and TestRail

Techstacks: React, JavaScript, HTML, CSS, Spring Boot, Rest APIs, Ajax, MySQL, AWS S3, Docker, Gradle

FPT Software - Software Engineer Intern, *Hanoi, Vietnam* Aug 2020 - Nov 2020

- Developed a front-end for high traffic website serving 2000 customers per day using React
- Created an UI that display list of products from DynamoDB
- Displayed logs of Kris Shop from CloudWatch to Kibana

Techstacks: React, TypeScript, HTML, CSS, Kibana, CloudWatch, DynamoDB

PERSONAL PROJECTS

Lyrics Searcher System Sep 2020 - Dec 2020

- Developed a highly scalable back-end distributed system that allows user to query the lyrics to find the matching songs
- System is fault tolerant by implementing theory of leader election that has aggregator and cluster
- Implemented Apache Zookeeper to detects and recovered system when aggregator or cluster fails
- Used Google Protocol Buffer, HTTP Protocol to communicate between aggregator and cluster
- Implemented TF-IDF algorithm for cluster to rank songs based on the user's query

Techstacks: Java, Apache Kafka, Apache Zookeeper, Java HTTP Server and Client, Protocol Buffer

EDUCATION

Case Western Reserve University - B.S in Computer Science Dec 2023

- **University Coursework:** Programming in Java, Data Structures, Operating System, Computer Network, Software Engineer, Discrete Math
- **Course Certificate:** Java Multithreading, Concurrency & Performance Optimization

SKILLS

- **Languages:** Java, JavaScript, TypeScript, Python.
- **Frameworks:** Node.js, React.js, Serverless, ASP.NET, Bootstrap, ASP.NET MVC, Angular