Khoa Nguyen

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Experience

General Motors LLC. Austin, TX
Software Developer Jan, 2021 – Present
- Develop high-throughput, low-latency java applications focusing on data streaming for all North American fleets.
- Increase production environment stability by identifying and resolving bugs, while concurrently collaborating on optimizations aimed at fortifying the overall robustness and reliability.
- Train team members to boost their proficiency and confidence in managing production incidents, thereby resulting in overall operational excellence.
- Manage and actively curate team's documentations to facilitate effective knowledge sharing and ensure seamless workflow processes.
- Support junior developers in their integration into the team by familiarizing them with the team's day-to-day operations and resolving any technical issues they encounter.

UCI Medical Center Irvine, CA
Web Developer Oct, 2020 – Jan, 2021
- Maintained and upgraded Radiology department website using PHP and WordPress features.
- Implemented creative solutions to promote knowledge sharing and streamline communication within the department, fostering a more collaborative and productive work environment.
- A/B tested various layouts to improve user experience for medical students and residents.
- Collaborated across multiple teams to successfully achieved deadlines and expectations.

Technical Project

High Speed Data Streaming | General Motors
- A Java-based application that leveraged Akka and Apache Pulsar for end-to-end data streaming, with a primary emphasis on handling over a million requests per hour.
- Improved latency significantly when interacting with Cassandra database by implementing Redis cache with features to prevent outdated persistent data.
- Developed and deployed bug fixes to the production environment while also set up metrics, alerts, and Grafana dashboards for issue tracking.
- Engaged in collaborative efforts across multiple teams to facilitate knowledge sharing and meet evolving application upgrade needs effectively.

Spring Boot Data Streamer | General Motors
- Implemented an UDP streaming feature and Avro Pulsar feature, which expanding our end-to-end testing capabilities to several applications.
- Designed an Azure CI/CD pipeline with Docker to build and deploy application in Kubernetes environment.
- Refactored and optimized code to ensure stable, high-throughput connections with non-production servers.
- Engineered a scalable solution that empowers the application to transmit up to 500,000 messages per second, complete with configurable variables to adapt to various requirements.

German Football Data Analyzer | Class Project
https://german-futball.herokuapp.com
- Back-end project that parse, calculate, and display analytical data.
- Developed with Angular, MongoDB, Material UI, Node.js, Express.
- Created Node RESTful API's and data models from CSV football's data.
- Engineered scalable Angular front-end components to enhance user experience.

Technical Skills

Languages: Java, Python, JavaScript, ReactJS, NextJS
Tools: Kubernetes, Azure DevOps, Grafana, Git, Docker, Akka, Apache Pulsar, Kafka, MongoDB, Cassandra, Redis.

Education

University of California, Irvine Irvine, CA
Bachelor of Science, Computer Science March, 2020