Kitty Cao

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Skills

Java, Python, Tensorflow, Keras, Scala, Golang, C++, Spring Boot, Kafka, Spark, JavaScript, React, Docker, Kubernetes, Bash, PostgreSQL, Git

Experience

Guidewire Software, Remote - Software Engineer II   June 2020 - Current

- Programmed orchestration tool with Java, Spring Boot, and Camunda workflows for automating customer onboarding, reduced onboarding time from weeks to under 2 hours
- Adopted hexagonal architecture to improve code quality for future tasks, cutting development time for new features by controlling class explosion
- Architected metadata service to be used by cloud department for administering customer & internal Kubernetes clusters
- Developed & deployed CICD tools (TeamCity, Bitbucket) with Terraform & Kubernetes, in use by 20+ customers
- Built retrospective site as a microservice in internal Kubernetes cluster, used by 86 teams

Sumo Logic, Redwood City - Advanced Analytics Intern   Sep 2019 - Dec 2019

- Aggregated suspicious AWS events collected through programmed Sumo Logic data analytics log operators for presentation at AWS re:Invent 2019
- Maintained operators in Sumo Logic log search with Scala
- Prototyped AWS attack cycle detector for monitored AWS events using Python, React, and Neo4j

Nvidia, Santa Clara - Machine Learning Intern   Jan 2019 - Apr 2019

- Sped up the data cleaning of gaze-detection input features for CNN by 7 times
- Revised input vector for eye gaze to improve detection accuracy
- Automated the training and evaluation of ML networks through scripting CICD pipelines and starting data cleaning app as a Docker container in Nvidia's GPU cloud
- Reduced training time by 1.6 times through elimination of idle CPU time in Tensorflow

Autonomic, Toronto - Ride Hailing Intern   May 2018 - Aug 2018

- Reduced amount of S3 storage required by 5 times, overhauling use of complete model objects to smaller deltas in storage for record keeping and rollback in a distributed system
- Migrated historical events to new model without affecting production uptime, maintaining backwards compatibility in API
- Ingested Kafka streams into SpringBoot backend for tracking rides in real-time
- Sped up API update latency by 3 times through reducing model complexity in SQL database

Education

University of Waterloo - Bachelor of Software Engineering   Sep 2015 - Apr 2020

Graduated with Distinction