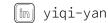


Software Engineer

saoyan.github.io



SaoYan



WORK EXPERIENCE

APPLE MEDIA PRODUCT | Sofware Engineer

May 2022 - Present | Vancouver, Canada

Highlighted skills: Java, Spring, Protobuf, Docker, Kubernetes, Solr, Cassandra, GraphQL

- → Worked in the team developing and maintaining the content management service for TV contents, including movies, episodes, and sports.
- → Migrated all services to container, improved deployment workflow and service scaling capability.
- → Supported the launch of MLS game live streaming on Apple TV app (2023 Spring).

AWS KINESIS DATA STREAM (KDS) | SOFWARE ENGINEER

Aug. 2020 - April 2022 | Vancouver, Canada

Highlighted skills: Java, Guice, Protobuf, DynamoDB, AWS KMS, Cloudformation

- → Migrated the proxy service from JDK8 to JDK11, and tuned JVM garbage collectors. Ran load testing and benchmarked upon various hardware categories. Improved throughput by 20%
- → Participated in the overall design of KDS's new backend storage layer.
- → Designed and implemented the control plane of the new backend that manages KDS data storage resources.

AMAZON PRIME VIDEO | SOFTWARE ENGINEER INTERN

July 2019 - Oct 2019 | Seattle, U.S.A

Highlighted skills: Typescript

- → Intern Project: Streaming Segment Parser (Webpage)
- → Re-designed the ISO-BMFF video segment parser. The new design turns the previous synchronous parsing process into asynchronous, making it capable of handling streaming data.
- → Implemented the new parser using TypeScript via event-based architecture and improved time-to-first-frame by around 20%.

RESEARCH PROJECTS

MELANOMA RECOGNITION BASED ON VISUAL ATTENTION

Sep. 2018 - Dec. 2018 | Burnaby, Canada

- → Project Webpage
- → Proposed an attention-based method for accurate melanoma recognition. The attention modules, which are learned together with other network parameters, estimate attention maps that highlight image regions that are relevant to lesion classification.
- → Paper published: Yiqi Yan, Jeremy Kawahara, Ghassan Hamarneh, Melanoma Recognition via Visual Attention In International Conference on Information Processing in Medical Imaging (IPMI), 2019.

SKILLS

PROGRAMMING

Proficient:

Java • Python

Experienced:

Ruby • JavaScript • TypeScript

LIBRARIES/FRAMEWORKS

Guice • Protobuf • Spring

Solr • Cassandra • GraphQL

Docker • Kubernetes

AWS

Kinesis • DynamoDB • S3 • CloudWatch • CloudFormation • IAM • KMS

EDUCATION

SIMON FRASER UNIVER-SITY

M.Sc. IN COMPUTER SCIENCE 2018 - 2020 | Burnaby, BC, Canada Medical Image Analysis Lab Cum. GPA: 3.84 / 4.33

NORTHWESTERN POLY-**TECHNICAL UNIVERSITY**

B.Eng. in Communication Engineering

Sep. 2014 - July 2018 | Xi'an, China School of Electronics and Information

Cum. GPA: 88.75 / 100