Yiqi Yan

Software Engineer

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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 UNIVERSITY
M.Sc. in Computer Science
2018 - 2020 | Burnaby, BC, Canada
Medical Image Analysis Lab
Cum. GPA: 3.84 / 4.33

NORTHWESTERN POLYTECHNICAL UNIVERSITY
B.Eng. in Communication Engineering
Sep. 2014 - July 2018 | Xi'an, China
School of Electronics and Information
Cum. GPA: 88.75 / 100