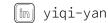


Software Engineer

saoyan.github.io Saoyan





WORK EXPERIENCE

APPLE SERVICE ENGINEERING | Sofware Engineer

May 2022 - Present | Vancouver, Canada

Highlighted skills: Java, Spring, Kubernetes, Solr, Cassandra, PostgreSQL, GraphQL, Project Reactor

- → Worked in the team developing the content management systems for TV contents, including movies, episodes, sports, and live streams.
- → Migrated all services to container, improved deployment workflow and service scaling capability.
- → Implemented a micro service responsible for streaming, parsing, indexing, and querying metadata that are submitted in XML format.
- → Supported new features for launching MLS live game in the TV App.

AWS KINESIS DATA STREAM (KDS) | SOFWARE ENGINEER

Aug. 2020 - April 2022 | Vancouver, Canada

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

- → 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 around 20%
- → Participated in the overall design of KDS's new backend storage layer. Owned the design and implementation of the control plane that manages KDS data storage

AMAZON PRIME VIDEO | SOFTWARE ENGINEER INTERN

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

Highlighted skills: Typescript

- → Streaming Segment Parser: Designed and implemented an asynchronous ISO-BMFF video segment parser, making it capable of handling streaming data.
- → Improved time-to-first-frame by around 20% compared to the previous synchronous implementation.

PUBLICATIONS

- → Yiqi Yan, Jeremy Kawahara, Ghassan Hamarneh, Melanoma Recognition via Visual Attention In International Conference on Information Processing in Medical Imaging (IPMI), 2019.
- → Yiqi Yan, Lei Zhang, Jun Li, Wei Wei, Yanning Zhang, Accurate Spectral Super-resolution from Single RGB Image Using Multi-scale CNN In Chinese Conference on Pattern Recognition and Computer Vision (PRCV), 2018.

RESEARCH PROJECTS

MELANOMA RECOGNITION BASED ON VISUAL ATTENTION

Sep. 2018 - Dec. 2018 | Burnaby, Canada

- → 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:

JavaScript • TypeScript

LIBRARIES/FRAMEWORKS

Spring • Guice • Protobuf Solr • Cassandra • PostgreSQL GraphQL • Project Reactor 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