Yiqi Yan

Software Engineer

🏠 saoyan.github.io   ⊙ SaoYan   in yiqi-yan

Work Experience

CODEMAKER AI | Co-Founder

Aug 2023 – Present | Vancouver, Canada

- ➔ CodeMaker AI offers AI augmented software development tools for generating code, tests and documentation.
- ➔ Developed toolkits to integrate our product with Github CI/DC workflows.
    - ➔ codemaker-action: Plug-in code generation into CI/DC workflows.
    - ➔ codemaker-pull-request-action (under development): Automatically make updates to pull requests based on user comments.

APPLE MEDIA PRODUCT | Sofware Engineer

May 2022 – Present | Vancouver, Canada

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

- ➔ Worked in the team developing and maintaining the content management tools for TV contents, including movies, episodes, sports, and live streams.
- ➔ Migrated all services to container, improved deployment workflow and service scaling capability.

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 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 resources.

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.

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 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