Boyue Zheng

☐ (404) 200 0774 • ☑ zby.gatech@gmail.com • in boyue-zheng

Education

Georgia Institute of Technology

Atlanta, GA

M.S. in Computational Science & Engineering, GPA 3.8/4.0

Aug. 2019 - May 2021

Skills

Programming: Java, JavaScript, C++, Python, PHP, SQL, HTML/CSS, Go, Scala

Framework: Spring Boot, React, React Native, Node.js, Flask

Database: MySQL(XDB), MongoDB, Redis AWS: S3, EC2, Lambda, DynamoDB

Work Experience

Software Engineer, Meta Platforms, Inc

Menlo Park, CA

AI Security team

Feb 2023 - Present

- o Developed Model Pathprefix ACL Auto-rollout service for Model Soft Delete Gatekeeper service
 - Implemented model snapshot/checkpoint pathprefix fail close/fail open auto-rollout service in C++, Thrift and XDB. Added unit tests using GoogleTest.
 - Deployed Cron job and write python scripts with thrift-py to support auto-syncing and failure recovery of ACL from XDB to Configerator.
 - Aumtomated fail close/fail open rollout to save Eng manual work and improve system security.

Software Engineer, Meta Platforms, Inc

Burlingame, CA

VR Media Platform team

Oct 2021 - Feb 2023

- o Developed Creator Insights dashboard in Oculus Media Studio and provided creators correct and consistent insights
 - Designed and scoped the project. Led discussion with Media Content team and Data Engineers to align metrics.
 - Created scalable data pipelines using Dataswarm for 1/7/14/28D VR Video/Animation 10s View, Media Item Saved to VR, Total View Count and Creator Portfolio Visit. Reused in Oculus TV in headset.
 - Implemented back-end using EntQL, PHP and GraphQL; Front-end with date selectors and daily metric breakdown histogram using react.
 - Boosted Daily Active People by 27%.
- o Developed features in Oculus Media Takedown tool which is an efficient tool for content reviewers to take down VR Video/Animation
 - Implemented an interface to query encoding details, i.e. Video Resolution, FPS, Bitrate, Encoding Exception, Missing Encodings which saves developers 1hr/week to check for them.
 - Added filtering options for media items, i.e. Media Item Title, Creator Name which saves reviewers 30min/week.
- o Benchmarked 360 video transcoding performance, quality and memory usage with in-house ffmpeg package
 - Implemented the script with Python and made it reusable by different codecs, i.e. h264, vp9.
 - Reported and triaged accurate infra-side support. Reduced out of memory error rate from 5% to 0.
- o Onboarded VR Video Ingestion pipeline to X-Product Video(XPV) and Unified MediaInfra API(UMA)
 - This is a teamwork and I mainly focused on UMA on Spherical video cubemap/download/basic pipelines and spatial audio pipeline.
 - Supported longer video up to 30 minutes with resolution 5760*5760. Improved stability from 96% to 98%. Simplified encoding process. Promoted Encoding success rate from 92% to 100%.
- o Improved team operational excellence continuously. Identified root cause of 5 false and repetitive alarms in VR Video Ingestion pipelines.
- o Onboarded junior engineers to team tech stacks, provided them with helpful resources and tasks to ramp up.

Application Development Engineer Intern, ADP

Atlanta, GA

Authentication and Identity Management DevOps team

June 2021 - July 2021

o Created visualization Splunk dashboards with Splunk search processing language to continuously monitor and send alerts for 100+ Apps' authentication-related metrics at both infrastructure and App levels