

Timothy Kuo

Software Engineer with full stack experience looking to help combat climate change.

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EXPERIENCE

Color Health — Software Engineer II

May 2022 - March 2023

- Led development for new Laboratory Inventory Management System (LIMS) that unlocks immunology and chemistry tests for Color's wet lab, enabling the lab to increase its sample output by 30%.
- Developed the detail-view and sign-out functionality for patient results, increasing the medical geneticist's sign-out rate by 50%.
- Designed and implemented "rollback" functionality for LIMS state-machine, wrote its corresponding playbook, and trained the support team on its usage, eliminating all engineering involvement for related tickets (5% of all on-call tickets).
- Redesigned a syncing system for sending raw lab data to LIMS, using S3/SQS to improve reliability and reduce manual intervention.

Amazon Web Services — Software Engineer II

August 2019 - March 2022

- Lead developer for multiple key services in AWS EC2, such as BlackfootService (BFS), a monitoring and command/control service for over 60,000 devices worldwide.
- Designed and developed solution for a horizontal scaling cliff edge in BFS, decreasing our data sharing times from 240 to 50 seconds and mitigating all impact preemptively.
- Optimized caching logic to be event driven for vital BFS API endpoints, speeding up response time by 80%.
- Designed and implemented CI/CD plan for BFS with integration test suites and canary testing, reducing ticket count by 50%.
- Trained 4 other engineers on the team on BFS and documented best practices and runbooks for the organization.

Amazon Web Services — Software Engineering Intern

June 2018 - August 2018

- Implemented multi-selection of objects, such as shift/ctrl-click logic, deletion, duplication, and drag-drop in AWS Sumerian using Javascript and AngularJS.

EDUCATION

M.S. Computer Science, May
2019

Case Western Reserve Uni

B.S. Computer Science, May
2018

Case Western Reserve Uni

SKILLS

Python, Go, Java

SQL (Sqlite, Postgres), Flask,
Django, Django REST
Framework, React, Apache,
AWS

Unix, Git

LINKS

www.timkuo.com