

# JASON YAO

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## EDUCATION

### New York University

College of Arts & Science  
BA in Computer Science  
Grad. May 2017

## SKILLS

### Programming

#### Languages

Java, Python, C++, TypeScript,  
C, Bash

#### Web Frameworks

Spring/SpringBoot, Spring  
Reactor/WebFlux, Django, Flask,  
NodeJS, Express, Vue 3

#### Data Layer/Caches

PostgreSQL, MongoDB, Redis,  
Hibernate, JPA, R2DBC

#### Message Buses

Kafka, AWS SQS, RabbitMQ

#### Observability

Prometheus, Grafana,  
LightStep, OpenTelemetry

#### Tools

git, vim, Kubernetes, Docker,  
Github Actions, DroneCD, L<sup>A</sup>T<sub>E</sub>X,  
Consul

### General

#### Languages (Native Fluency)

English, Chinese

#### Miscellaneous

I know how to learn, use Google,  
sing badly in the shower, and read SO

07.01.2023

## EXPERIENCE

### Google

New York, NY (1 years, 10 months)

#### Software Engineer L4 (Google Search) Sep 2021 – Present

- Proposed, designed, and lead team of 5 SWEs in implementation of a plan to improve Google Search debugging performance, leading to a **99.8% error rate reduction, and ~70% latency improvement**, and over 500 SWE-days saved in time per year
- Proposed, designed, and lead team of 5 SWEs in implementation on next generation service architecture enabling faster developer velocity and additional latency improvements

### Squarespace

New York, NY (3 years, 6 months)

#### Software Engineer III (Domains) Mar 2018 – Sep 2021

- First engineer on Domain Registrar team, **turned Squarespace into a Domain Name Registrar**, enabling direct domain registration and management without 3rd parties.
- Designed and built registrar TLS, EPP, and product features that **lowered domain registrations from ~30s to ~100ms (99.6% latency reduction)**
- Designed and built robust backend services and systems for Squarespace Emails that **lowered error rates from ~40% to ~2%**, and **decreased customer support volume from ~60% to <1%**
- Reduced company reliance on 3rd party vendors by building out registrar functionality in-house, lowering domain costs on average by ~20%, and **provided new uptime guarantee of 99.9% compared to old 3rd party's 95% uptime** for all domain actions
- Proposed, designed, and built the backend systems for a generic fraud detection system, increasing the number of identified fraudulently purchased domains by over 3.5 times baseline. Converted fraud detection model at Squarespace from reactive to customer write-ins to proactively identifying fraudulently purchased domains
- Wired up deep observability metrics via Prometheus/Grafana, **providing useful technical and business dashboards and alerts in previously opaque systems running in production**

### MediaMath

New York, NY (9 months)

#### Software Engineer I & II Jul 2017 – Mar 2018

- Tech Lead** for a company-critical ETL service that **generated all fee data used by thousands of advertising bidders world-wide**
- Reduced client friction by over 90%**, and unlocked company's potential revenue substantially by enabling individual feature pricing
- Increased team developer velocity by >300%** (based on story point completions before/after) by creating a command-line API interacting with service subsystems