

# 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, JavaScript,  
TypeScript, Bash

#### Big Data Tools

(Py)Spark + Yarn, AWS EMR

#### Web Frameworks

Spring/SpringBoot, Django,  
Flask, NodeJS, Express

#### Data Layer/Caches

PostgreSQL, MySQL,  
MongoDB, Redis, Hibernate, JPA

#### Message Buses

Kafka, AWS SQS, RabbitMQ

#### Observability

Prometheus, Graphana,  
LightStep, OpenTelemetry

#### Tools

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

### General

#### Languages (Native Fluency)

English, Chinese

#### Miscellaneous

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

09.26.2021

## EXPERIENCE

### Google

New York, NY (Starting Soon)

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

- Software engineer on Google Search's developer efficiency team

### 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/Graphana, **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
- Continued assuming SDE II responsibilities, increasing team cohesion, technical ability, and positive feedback loop implementations
- Significantly increased visibility and insight into the service by building out monitoring and resiliency layers