

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, \LaTeX , Consul, Envoy

General

Languages (Native Fluency)

English, Chinese

Miscellaneous

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

EXPERIENCE

Google

New York, NY (2 months)

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