

JASON YAO

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EDUCATION

New York University

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

SKILLS

Programming

Languages
Kotlin, Java, Python, C++,
TypeScript, C, Bash

AI/ML

PyTorch, TensorFlow, Diffusers

Web Frameworks

Spring/SpringBoot, Spring
Reactor/WebFlux, Django, NodeJS,
Vue 3, OpenAPI, Protobuf

Databases & Processing

PostgreSQL, MongoDB,
Spanner, Redis, Hibernate, JPA,
R2DBC, Kafka, AWS SQS

Observability

Prometheus, Grafana,
LightStep, OpenTelemetry

Tools

git, vim, Kubernetes, Docker,
Github Actions, LATEX, Consul

General Miscellaneous

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

EXPERIENCE



Senior Software Engineer

New York, NY (4 years, 3 months)

Nov 2023 – Present

- **Tech lead for team of 10 engineers** enhancing debugging capabilities on Google Search's next-generation LLM-powered platforms, increasing productivity for 5k+ MAU engineers
- Designed and led implementation on Google Search's next generation debugging platform, resulting in entirely new debugging capabilities
- Led cross-team overhaul for underlying Google-wide debug logging service, **driving down read-after-write latencies from 35s+ to <5s (an >85.7% decrease)**
- Upskilled/mentored team members to be excellent individual contributors, recognized through promotions for team members

Software Engineer

Sep 2021 – Nov 2023

- Proposed, designed, and lead team of 5 SWEs on project to improve Google Search debugging performance, leading to a **99.8% error rate reduction, and ~70% latency improvement**, and over 25 SWE years saved per year
- Proposed, designed, and lead team of 5 SWEs on next generation platform architecture, enabling faster developer velocity, reliability, and stability of owned services



Software Engineer III (Domains)

New York, NY (3 years, 6 months)

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 correctly-identified fraudulently purchased domains by over 3.5x baseline**. Converted fraud detection model at Squarespace from reactive to customer write-ins to proactively identifying fraudulently purchased domains

