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++, Kotlin, TypeScript, C, Bash

AI/ML
PyTorch, TensorFlow, Diffusers

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

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

Google — New York, NY (4 years, 2 months)

Senior Software Engineer (L5) Nov 2023 – Present
- Designing & leading implementation on Google Search's next generation debugging platform
- Designed & lead implementation on adding debugging capabilities to next-gen Observability platform, **bringing generalized debugging capabilities to over 10k+ MAU engineers**

Software Engineer (L4) 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

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 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

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