Peter Griggs

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EXPERIENCE

DATADOG - CONTINUOUS PROFILER

Senior Software Engineer — June 2025 – Present
Software Engineer II — Nov 2022 – June 2025
Software Engineer I — May 2021 – Nov 2022
New York, NY

- Owned backend systems powering Datadog's Continuous Profiler, spanning ingestion, distributed processing, and symbolication for large-scale production workloads with end-to-end responsibility for design, delivery, testing, and operations.
- Acted as backend technical lead for the Full Host Profiler: defined architecture, replaced `addr2line` with the Rust-based `symbolic` library as a critical performance unlock, and implemented distributed caching for symbol and deobfuscation APIs, improving throughput and reducing required capacity to ~1/3 of prior pod counts.
- Designed and shipped symbolication for stripped production binaries; authored RFCs and implemented symbol ingestion, public symbol scraping, indexing, and query paths, working closely with the RUM deobfuscation team to take the system from early unblockers to a scalable, production-ready architecture and iterating on performance, correctness, and monitoring post-launch.
- Modernized core distributed services by migrating to a new Kafka streaming library, reducing operational complexity, improving failover behavior, and eliminating large rollout lag spikes.
- Conceived and led the development of continuous GPU profiling: defined technical direction, drove implementation to external customer testing using a PyTorch profiler integration, and released the feature publicly as an experimental offering; currently integrating GPU profiling into the Full Host Profiler.
- Drove profiling backend migrations (Libstreaming, Rapid, OTLP, refactors), acting as the backend point of contact while coordinating across partner teams including API Platform, RUM deobfuscation, and Event Platform, and addressing usage and billing correctness issues in production-critical paths to deliver safe, staged rollouts.
- Wrote runbooks and postmortems, improved dashboards and KPIs, and participated in on-call rotations, raising the reliability and debuggability of profiling backend services.
- Managed 3 reports while remaining hands-on; mentored engineers, led backend syncs, co-ran profiling workshops for external users at DASH (Datadog conference), conducted interviews, and presented technical work org-wide.

MIT CSAIL - DATA SYSTEMS GROUP | Research Assistant

February 2019 - February 2021 | Cambridge, MA

- Built real-time database update interfaces with pan-and-zoom visualization; collaborated with Professor Mike Stonebraker and the Data Systems Group.
- Researched spatial indexing performance and integrated improvements into Kyrix, a system for authoring scalable interactive data visualizations on databases (see thesis).

EDUCATION

MASSACHUSETTS INSTITUTE OF TECHNOLOGY | M.Eng in Computer Science

TA for Computer Systems Engineering
GPA: 5.0 / 5.0 • Relevant Classes: Computer Graphics • Operating Systems Engineering • Distributed Systems

MASSACHUSETTS INSTITUTE OF TECHNOLOGY | B.S. in Computer Science

GPA: 4.2 / 5.0 • Relevant Classes: Machine Learning • Computer Systems Security • Computer Systems Engineering • Compilers

SKILLS

LINKS

Website: www.petergriggs.com
Github: peterg17
LinkedIn: petergriggs

TOOLS

Experienced:
Git • Kubernetes • Docker • Linux • Kafka • Postgres • AWS • Datadog

Familiar:
PyTorch

PROGRAMMING

Experienced:
Java • Python • Go

Familiar:
CUDA • C/C++ • Rust • SQL