Shreeram

STAFF ENGINEER

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Summary

15+ years in Site Reliability Engineering, Observability, Performance Engineering, and Infrastructure Automation · Expertise in monitoring cloud-native systems (via eBPF-based tracing and profiling), and applying AI/LLM solutions to enhance operational efficiency · OSS contributor·

Experience

Walmart   *Bengaluru, India*
STAFF ENGINEER   *Aug. 2024 - Present*

- Built and operated distributed tracing with Odigos (eBPF, OpenTelemetry) for end-to-end microservice request visibility
- Implemented continuous profiling with Zymtrace for real-time CPU/memory insights in production with minimal overhead
- Developed use cases for tracing/profiling data, enabling latency root-cause detection, performance regression alerts, and cost optimization
- Integrated ClickHouse for high-speed querying over billions of spans and profiling samples
- Authored frameworks and playbooks to standardize instrumentation, data collection, and visualization across engineering teams
- Prototyped LLM-based operational assistants using Ollama, LangChain, and vector search to accelerate incident triage and on-call workflows

Walmart Labs   *Bentonville, United States*
LEAD ENGINEER, STAFF ENGINEER   *Feb. 2015 - Jan. 2024*

- Remediated tech debt across Walmart's platforms, addressing 100K+ repository vulnerabilities — including 5,000+ log4j issues — and closing 28K Jira tickets in under six months
- Modernized Pangea system, increasing peak order processing throughput by 6x
- Implemented CI/CD with Jenkins, enabling Blue/Green deployments and feature toggles for zero-downtime releases
- Boosted Incident Portal performance by 9x through backend and frontend optimizations
- Developed *app-mon* for real-time Tomcat monitoring and *One Point Commander* for Slack-based load analysis

Wipro - ASDA, eIC Intg.   *Bangalore, India*
ASSOCIATE CONSULTANT   *Jan. 2013 - Feb. 2015*

- Engineered high-throughput Tomcat and Order Management System middleware with IBM MQ
- Built messaging framework for queue depth monitoring and max message length analysis
- Optimized inventory services (CONGO) from 400–500 ms to under 50 ms

Wipro - Nike, Allstate   *Chennai, India*
PERFORMANCE ANALYST   *Jul. 2011 - Dec. 2013*

- Improved Citrix client and Web UI performance, reducing load times by 30% via YSlow/CDN optimizations
- Developed PowerShell and batch tools for bandwidth tracking and latency analysis
- Performed performance tuning of EDMS on Oracle 11g for large document handling

Skills

Programming	Python, Golang, Rust, JavaScript
Cloud & DevOps	Kubernetes, Docker, Jenkins, Git, CI/CD, Blue/Green Deployments
Observability	Prometheus, Elasticsearch, TICK Stack, ELK Stack, AppDynamics, DynaTrace, Wireshark, eBPF (Odigos, Zymtrace)
AI & Automation	Ollama, LangChain, OpenAI API, Hugging Face Transformers, AI-assisted Ops Tooling

Talks

OPEN PROJECTS

Jun. 2019	**Prebinder - Won the Pandashack Hackathon - Python,** Microsoft - Hackathon	*Github* | *About*
Jul. 2018	**Jmeter Plugin for Slack Integration with Apps and Webhooks - Java,** Open Source	*Github* | *About*
May. 2018	**Executor Service for Operating System as Service - Java,** Open Source	*Github* | *About*
Jun. 2017	**Gender and Feature detection for Product suggestion - Python,** Walmart - Hackathon	*Github* | *About*
Mar. 2017	**Sentiment Analyzer for Trend Analysis - Python,** Open Source - Hackathon	*Github* | *About*

CONFERENCES

Apr. 2018	**Oogway server for service virtualization @Walmart,** Innovations, Bentonville	*Slides* | *About*
Mar. 2011	**Phishing detection using Genetic Algorithm @SASTRA,** IEEE INSPEC 11745362, India	*Slides* | *About*