SrikanthSastry

Software Engineer

contact

+1 (504) 272 7879
sastry@csail.mit.edu
www.sastry.name

programming

Python
Java
C++
SQL

skills

Big Data (Spark, Presto)
Advanced Algorithms
System Architecture
Distributed Systems
Software Design
Data Privacy
Mentorship
Research
Analytics

experience

2017–present · **Meta Platforms Inc. (formerly Facebook Inc.)** · Cambridge, MA

TL in Warehouse Data Privacy (Python, Java, C++, SQL, Distributeds Systems, Big Data, Privacy)
- Leading a cross-org unification of consent-control enforcements.
- Developed the technical strategy for warehouse-wide consent-control platform.
- Designed and led the implementation of Ads consent control system that scales to over 0.5M partitions every day.
- Designed and built purge systems for deleted account data to satisfy FTC Consent Decree; it runs on more than 3K datasets.
- Automated reanonymization of multiple petabytes of data in the warehouse.
- Led the tooling for massive data mutation for the Clear History project.
- Mentored several engineers from junior to staff levels.

IC for Content Delivery Network (C++, Python, Distributed Systems, Networking)
- Redesigned CDN load balancer deployment for increased reliability, capacity savings, and independent scalability of constituent components.
- Built ARMA based anomaly detection service for time series monitoring.

2013–2017 · **Google Inc.** · New York, NY and Cambridge, MA

IC for Google Flight Search Infrastructure. (Java, R, SQL, Distributed Systems, Air Travel)
- Increased the server capacity for long-tail queries by 7x.
- Decreased median long-tail query latency by 60ms.
- Increased backend compute utilization peak from 66% to 87%.

IC for Traffic Engineering. (C++, Distributed Systems, Networking)
- Integrated 5 routers into the software network model in the SDN control path.
- Refactored network model software deleting over 2.5K lines of functional code and 1.1M lines of test code.

2001–2004 · **Cisco Systems** · Bangalore, India

IC for Cisco IOS development. (C++, Tcl, Networking)
- Developed new features for subscriber-edge routers.
- Trained customer support engineers on Cisco's IOS software.

education

2011–2013 · **Postdoc.** · CSAIL, MIT
Theory of distributed systems.

2011 · **Ph.D.** in Computer Engineering · Texas A&M University
Fault tolerant distributed systems.