

SUHAS MURALIDHAR

SENIOR SOFTWARE ENGINEER, STRIPE

 [@suhashm](#)

EDUCATION

MASTER'S IN COMPUTER SCIENCE

University of Illinois,
Urbana-Champaign
Aug 2014 – Dec 2015

BACHELOR'S IN COMPUTER SCIENCE

R.V. College of Engineering
Sep 2008 – Jun 2012

SKILLS

// PROGRAMMING

Golang, Java, Scala, Python, Ruby

// BIG DATA

Hadoop, Apache Spark (ML / SQL /
Streaming), Kafka, S3

// DATA STORES

PostgreSQL, Elasticsearch, Cassandra,
MongoDB

// MISC

AWS, Docker, Kubernetes, Git

ACHIEVEMENTS

Presented details on "Stripe Multi-CDN
Strategy for resiliency" at [Fastly's
Altitude NYC - 2019](#)

Berkeley Big Data X-Series - Apache
Spark certification

Presented a paper titled "Secret Behind
Search Engines: Web Crawler" at the
proceedings of National Conference,
Computer Society of India

Technical Reviewer "Web Development
with NodeJS and MongoDB" by Packt
Publisher

WORK EXPERIENCE

SENIOR SOFTWARE ENGINEER

Stripe / Seattle, WA / Jul 2018 – Present

- Designed & implemented a service to shield Stripe's systems from millions of spurious requests/day and L7 volumetric DDoS attacks at the edge of Stripe's network. This service was designed to
 - Reject & ban invalid requests at the edge based on API Key signature validation within ~5s of elevated requests to the API
 - Generic rate-limit against IP address, User Agent and custom attributes.
- Developed a service for tagging API requests with priority levels at the edge to enable smart routing based on API availability tiers.
- Built an end to end system to perform reachability and latency monitoring for Stripe API to ensure Stripe's global availability.
- Developed solutions to reduce network latency by >50% by moving our PoPs closer to the customers.
- Designed & implemented a second CDN for Stripe to build resilience against single provider outages and unlock new static asset delivery capabilities.
- Developed a scala framework for a generic ML feature generation pipeline for Stripe's fraud detection engine.
- Designed & implemented a platform to perform sanction screening and consent management for Stripe's consumer products.
- Founding engineer on multiple teams; helped establish strong norms for engineering & operational excellence and building the culture of user's first for delivering solutions.

SENIOR MEMBER OF TECHNICAL STAFF

Salesforce / San Francisco, CA / Feb 2016 – Jun 2018

- Designed and developed scalable and distributed data pipelines for Salesforce IoT to perform data transformations.
- Developed the Ingestion pipeline for high throughput events using Kafka and Azure Event Hubs.
- Developed Output Connectors running in Kubernetes for the processed data to be utilized from Salesforce IoT to the outside world.

SOFTWARE ENGINEER

Intel / Bangalore, IN / Jul 2012 – Jun 2014

- Built responsive, large scale web applications to enhance productivity and user experience for various scheduling applications across Intel