Abhishek Manoj Sharma

San Francisco Bay Area, CA | (669) 204-6483 | abhishekmsharma287@gmail.com
linkedin.com/in/abhishekmanojsharma | abhishekmsharma.com

Site Reliability Engineer with over 5 years of experience. Expertise in distributed software, scalable infrastructure, and systems reliability.

Work Experience

Site Reliability Engineer at **Twitter** | *San Francisco, CA*   **Jul 2019 - Present**
- Working with the Notifications team that delivers notifications across all Twitter users globally.
- Facilitating the scalability and reliability workstream for Recommended Notifications (MagicRecs) that generate about 42 million monetizable DAU (~20% of entire Twitter) by sending more than 5000 notifications per second using the notification services and ML pipeline and infra.
- Led the platform and SRE efforts around service and performance improvements, capacity optimizations, and JVM tuning to scale our Scala based real-time services.
- Drove the evaluation and implementation of service-to-service load balancer for the notification-loop, email and push notification services that improved our throughput by about 25%.
- Improved our data pipeline infra built on Airflow to enable continuous ML model training which improved our model shipment frequency from once a quarter to every week resulting in multiple metric wins.
- Developed monitoring and observability dashboards, CI / CD deployment pipelines, and defined SLOs for the core notifications push, loop, news and event fanout services.
- Led multiple migration activities, notably Eventbus to Kafka migration, PDXA migration (scaling and deploying services on Twitter's new Portland DC), and GCP adoption for data analytics jobs.
- Founding member of Twitter's internal oncall tool for alert management, incidents, and metrics to ensure that the platform operates within the set SLOs and SLAs.

Software Engineer at **BNP Paribas** | *Mumbai, India*   **Jun 2015 - Jul 2017**
- Co-led the software and data pipeline automation efforts to build the financial data pipeline and services.
- Drove adoption of Flask microframework for existing Python tooling to build RESTful services for autonomous error reporting for the EU and Asia Pacific markets.
- Built PL/SQL solutions to enhance data quality and velocity of BI insights and analysis by over 35%.

Skills

Programming Languages and Scripting: Python, Java, Scala, Shell (Linux / Unix)
Database and Big Data: SQL (Oracle, MySQL), MongoDB, Spark, Kafka, Hadoop Systems (HDFS)
Distributed and Cloud Computing: Apache Aurora, Mesos, AWS, Google Cloud (GCP)

Education

Master of Science, Computer Science   **Aug 2017 - May 2019**
San Jose State University, San Jose, CA | GPA: 3.93 / 4.0
Focus Areas: Software Development Principles, Cloud and Distributed Computing, ML @ Scale, Big Data

Bachelor of Engineering, Computer Engineering   **Aug 2011 - June 2015**
University of Mumbai, Mumbai, India

Internships

23andMe | Software Engineer Intern | *Mountain View, CA*   **Mar 2019 - May 2019**
Worked with the Big Data Engineering team working on Genome-Wide Association Study to engineer and process massive data at scale, primarily on Kafka, Presto, and HBase.

SAP | Software Engineer Intern | *Palo Alto, CA*   **Jun 2019 - Dec 2019**
Built tools and libraries to monitor the server file system (similar to Facebook Watchman) of SAP HANA based databases. Also helped deploy the service on SAP Analytics Cloud.

Awards

Winner: Paypal 'Opportunity Hack' Hackathon, San Francisco Bay Area, 2018