

# Srikanth D

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## WORK EXPERIENCE

### Walmart Labs

Apr. 2022 – Present

Senior Software Engineer

Bangalore, India

- Responsible for metrics and driving business outcomes for Walmart Search., Within that context, I pioneered the design and development of various platforms for increasing experimentation velocity and throughput
- Launched several queue-based platforms for users to design, deploy, and monitor their model's metrics via interleaving experiments and nDCG evaluations, resulting in a reduction in turnaround time from **7 to 3 days**, a drop in error rate from **10% to 3%** for nDCG evals, and more than doubling the interleaving experiments by up to **60 per week**
- Developed a competitive benchmarking system automating the process for accessing Walmart search performance and attributing it to new monthly features, lowering report generation time from **45 to 18 days**

### Walmart Labs

Sep. 2019 – Apr. 2022

Software Engineer - III

Bangalore, India

- Created a new benchmarking statistic to capture the relevance and effectiveness of customers' complete journey utilizing absolute metrics across all platforms(web & mobile), such as CTR, ATC, MRR, Query Reformulation, Conversion, Abandonment, etc.,
- The above batch pipeline processes up to **100TB** of data daily while generating up to ten critical indicators, with the average indicating the overall relevance of customers' journey
- Constructed an On-Demand reporting pipeline that uses the above indicators to compare the success of an AB test while processing up to **20 million records** per request
- Contributed to architectural and pipeline enhancements for interleaving reports generation platform to accommodate new scoring methodologies in experiments
- Got up to speed with frontend technologies to remove multiple bottlenecks in quality checking, evaluations, and report generation in the nDCG evaluation platform from a median time of **14 days to under 7**

### Mad Street Den

July 2016 – Jan. 2019

Data Engineer

Chennai, India

- Spearheaded and authored a distributed search infrastructure over AWS infra using Apache Solr cloud that can support a maximum qps of **5000 per second** and under **100ms for 95 percentile**
- Formalized personalization in search and developed a search product based on more than **ten customer affinities** that get updated and served to customers in real-time
- Put together an automated product classification framework based on NLP and a rule-based engine that improves the granularity of the product types by more than 100%
- **SPOC** for multiple products like Cross Product, Search, and Product Classification
- Pioneered the transition to an incident Management Service: **OpsGenie**, which was instrumental in on-call fatigue reduction for a team of more than 50

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## EDUCATION

### Indian Institute of Technology, Madras

May 2016

B.Tech, Computer Science & Engineering

Chennai, India

- Minor in Management & Social Entrepreneurship.
- Managerial and Design Team head for NSS 2012-13; Graphic Designer for college Tech Fest, Shaastra - '13

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## SKILLS & INTERESTS

- **Proficient:** Python, Java, SQL, Bash; **Familiar:** Scala, Go, C, F#, C#.
- **Framewor**ks: Spring Boot, Hive, Spark(PySpark, Spark SQL), Pandas, Django
- **Overview:**
  - o Proficient: Airflow, Redis, Git, MySQL, Apache Solr, Tableau, REST APIs
  - o Amazon Web Services: Redshift, EC2, AWS S3, ALB, RDS, DynamoDB, AWS Lambda, ElasticCache.
  - o Google Cloud: Dataproc, CloudSQL, Compute Engine.
  - o Microsoft Azure: Compute, Azure SQL Server, AD Groups, .NET Framework
- **Others:** React JS, NoSQL Databases, Relational Databases, Elasticsearch, Docker, Postgres, Terraform, Grafana, Prometheus