

Srikanth DBP

Data Engineer

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Data Engineer experienced designing and developing Batch and Real-time Data Pipelines and passionate about distributed systems. I have four years of experience in Data Engineering and have extensively worked on Apache Solr(Cloud), Hive, Spark, and Python. I am currently working as a Data Engineer at WalmartLabs. I am passionate about building systems that are flexible and resilient. I wish to pursue any project which can expand my expertise to achieve the same.

EDUCATION

2016 Bachelor of Technology in **Indian Institute of Technology, Madras**.
Major in **Computer Science and Engineering** and Minor in Management

SKILLS

Programming languages	Proficient : Python, Bash. Familiar : Scala, F#, C#, Java, Go, Rust, C++, C
Frameworks	Hive, Spark, Pandas, Django, sklearn, numpy, Microsoft .Net
Databases	AWS Services : Redshift , RDS, DynamoDB, Postgres , GCP Services : Dataproc , CloudSQL, Compute Engine, MongoDB, Prometheus, sqllite
Applications & Tools	AWS Services : Lambda , ElasticCache, Elasticsearch; Airflow , Redis, Git, Docker, Terraform, Apache Solr , Apache Mesos, Kibana, Grafana
Operating systems	Arch Linux, Mac OS X, Ubuntu, Windows
Others	Adobe Photoshop, Google Sheets/Excel(Macros)

PROFESSIONAL EXPERIENCE

Present September 2019	Data Engineer, WALMART LABS, Bengaluru <ul style="list-style-type: none">➤ Primary developer for the implementation of Data pipelines for monitoring key metrics like CTR, ATC, MRR, Query Reformulation, Conversion, Abandonment, Out of Stock, etc., for measuring the KPI of Walmart Search, in understanding customer journey efficiency and finding the bottlenecks of business growth; Based on Hive, Python & Airflow.➤ Developed and implemented architectural changes for new features of the interleaving evaluation platform, which is the guardrail of all the search features deployed in Walmart Search; Based on Spark SQL, Python & Airflow.➤ Developed new features for internal nDCG tool which is used in evaluating the ranking qualities of different ML models before they are deployed into Walmart Search; Based on ReactJS, react-redux, and GraphQL.➤ Developed new features and created a pipeline for automated testing of the Search evaluation tool, based on F#, .NET Framework, and docker.➤ Revamped an outdated legacy code in F# to Scala. <div>Google Cloud Hive Spark Airflow Python F# Scala</div>
January 2019 July 2016	Data Engineer, MAD STREET DEN (VUE.AI), Chennai <ul style="list-style-type: none">➤ Designed and developed a distributed Data Pipeline and Search infrastructure using Solr Cloud, Zookeeper, Django(Python), Prometheus, Grafana, and Amazon Redshift.➤ Developed and implemented the core algorithms for the company's SAAS Personalized Search solution, VueFind.➤ Primary Developer (Dev to Production) for the core algorithms in intelligent taxonomy classification service(using NLP & Django), used internally as a core product.➤ Highly familiar with AWS services like, EC2, S3, DynamoDB, RDS, Elastic Cache, Elastic Search, AWS Lambda and libraries & frameworks : Pandas, sklearn, Django.➤ Part of the core team which developed various data-related products like Cross-Product, Personalization.➤ As a part of the On-call Team, I Initiated and spearheaded the usage of Incident Management Service, OpsGenie. <div>AWS Apache Solr Infrastructure Product Development Algorithms Devops Python Java</div>

July 2013 May 2013	Internship, SAMSUNG R&D INSTITUTE, Noida <i>Kernel Developer</i> for ANDROID, LINUX KERNEL FOR MOBILE DEVICES Usage of Debugging tools and analysis of Memory Allocation modules of linux kernel in ASOP. <ul style="list-style-type: none"> ➤ Debugged issues in memory allocation of device drivers in linux kernel of Android devices using Ftrace. ➤ Documented ION Heaps in Android and DMA Buffers for Memory allocation and their limitations. ASOP Ftrace Linux Kernel C ION Memory Allocator DMA Buffers
January 2013 December 2012	Internship, SEVENION, Bangalore <i>Software Developer</i> for MICROSOFT.NET ➤ Developed the client(C#) and backend for Data Replication and Sync app. C# Microsoft Visual Studio Microsoft .NET Microsoft SQL rsync Windows App Development Scrum
July 2012 May 2012	Internship-Engineer, FORMCEPT, Bangalore Automation for managing and deployment of Hadoop, Hbase clusters on Mesos <ul style="list-style-type: none"> ➤ Deployment of Mesos cluster and Hadoop over Mesos using Puppet and Shell(sh) scripting. ➤ Evaluated the performance of Hadoop on Mesos compared to standalone cluster. Bash Puppet Distributed Systems

PROJECTS

SLACK BOT FOR ANALYTICS

Developed a Slack Bot is to answer Analytical Queries using Natural Language Understanding(NLU) by interfacing with Elastic Search Backend where logs are stored. NLU is provided by DialogFlow API, which forwards the request to Pyramid(Python) backend, which then queries Elastic Search and serves the response.

Python Elastic Search Slack Bot DialogFlow Pyramid

UNDERDOG - MULTIPLAYER GAME USING TEXT

Developed a Game to teach Infrastructural Concepts using a multiplayer(size of 50) game where each player is provided with ingame money and has to buy ammunition for defeating his opponents.

The UI was built using HTML, CSS & JS, multiplayer communication using Node.js WebSockets and Backend Server to process all requests using Django and MongoDB as backend Database.

Python Node.js WebSockets Django MongoDB HTML JavaScript

MINIJAVA TO MIPS ASSEMBLY COMPILER

Developed as a part of Compiler Design Lab, based on JTB(Java Syntax Tree Builder) and JavaCC to convert MiniJava to MIPS Assembly. Series of steps include Type-Checking, Intermediate Code Generation, Register Allocation in JAVA

Java Compilers JTB

+ COURSE WORK

- Data Structures and Algorithms
- Operating Systems
- Cloud Computing
- Compiler Design
- Computer Networks
- Discrete Mathematics
- Basic Graph Theory
- Probability, Statistics and Stochastic Processes

POSITIONS OF RESPONSIBILITY

- Tech lead for Analytics Slack Bot and Multiplayer game using Text.
- Graphic Design Coordinator under Concept & Design Team for Shastra - 2013
- Managerial and Design Team for NSS 2012-13
- Project Head for Video Content Generation for Education for NSS 2012-13