

Srikanth DBP

Data Engineer

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Data Engineer and Software Architect for three years. I also have 3 years of experience in Distributed systems and have extensively worked on Apache Solr(Cloud), Hive and Spark. I am currently working as a Data Engineer. I am passionate about building systems that are flexible and resilient. I wish to pursue any project which can aid me to expand my knowledge base 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(SWE-3), WALMART LABS, Bengaluru <ul style="list-style-type: none">➤ Worked as an equal member of 3 person team which developed the data pipeline for search performance metrics(CTR, Typeahead CTR, MRR etc) using Hive, Python and Airflow on GCP.➤ Responsible for interleaving based evaluation platform written in Spark SQL, Python and Airflow.➤ Helped refactor a legacy system written 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, Python, Prometheus, Grafana and Amazon Redshift.➤ Maintained the entire project from Dev to Production, both the infrastructure and the product for VueFind. Was part of the development of the product from the scratch.➤ Developed the core algorithms for company's search solution VueFind.➤ Main Developer & Maintainer(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, and Search(VueCommerce).➤ Maintainer of multiple production workloads/services across regions and availability zones running on EC2 at scale.➤ Part of the On-call Team. Introduced the usage of Incident Management Service called OpsGenie➤ Have explored and used frameworks like Apache Spark, sklearn and numpy. <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 for ANDROID, LINUX KERNEL FOR MOBILE DEVICES</i> <p>Usage of Debugging tools and analysis of Memory Allocation modules of linux kernel in ASOP.</p> <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. <div>ASOP Ftrace Linux Kernel C ION Memory Allocator DMA Buffers</div>

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 > 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 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 Shaastra - 2013
- > Managerial and Design Team for NSS 2012-13
- > Project Head for Video Content Generation for Education for NSS 2012-13