



# Ashwanth Kumar

SOFTWARE ENGINEER · DEVELOPER EVANGELIST

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## tl;dr

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5+ years of experience · Loves to understand, build and operate distributed systems · Ops · Organizes internal / external hackathons · Talks at local meetups and conferences · OSS Supporter · Blogs at [blog.ashwanthkumar.in](http://blog.ashwanthkumar.in) and [indix.com/blog](http://indix.com/blog) ·

## Experience

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### Indix

Chennai, India

PRINCIPAL ENGINEER - DEVELOPMENT

Oct. 2016 - Present

- Currently working on Product Matching - Saying with a very high confidence that given any two products are same or not.
- Tech Lead in Data Ingestion Team that involves Code / Design Reviews and Mentoring for new members to the team.
- Finder - HTML Archive Storage system for storing over 3 billion HTML documents.
- **Suuchi** - OpenSource toolkit to build distributed data systems. Built for Finder initially but later adopted to other projects internally as well.

### Indix

Chennai, India

PRINCIPAL ENGINEER - DEVOPS

Oct. 2015 - Sept. 2016

- Responsible for the entire AWS Infrastructure and cost control.
- Work with tools like - Ansible, Chef, Mesos, Marathon, Go.CD, Hadoop and AWS
- Saved around million dollars on AWS using [matsya](#) and [vamana](#).
- Built an [alerting tool](#) for apps running on Marathon.
- Contributed [gocd-janitor](#) to GoCD to support intelligent artifact cleanup on the CI/CD servers.

### Indix

Chennai, India

SOFTWARE ENGINEER

Jun. 2012 - Sept. 2015

- First generation of Indix Data Pipeline which is completely based out of  $\lambda$  architecture.
- Two generations of our web crawler - scaling to millions of pages per day across 1000s of websites.
- Two generations of Scheduler which feeds our crawler with the right urls every day.
- Three generations of Parser. Built a DSL to express transformations in a language agnostic way that scaled the parsers to 1000s of websites.
- From Java based MR jobs to Scalding to building a query tool with a DSL (inspired from SQL and on top of scalding) which enabled engineers to access the data much faster for analysis / debugging.

### Mu Sigma

Bangalore, India

BIG DATA INTERN

Jan. 2012 - May. 2012

- Evaluating AWS for migrating to cloud from custom data centers
- Worked on running R code on Storm.

## Skills

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**DevOps Tools** AWS, Mesos, Marathon, Docker, Chef, Ansible, Basic Linux Administration

**Programming** Scala, Java, Go, Node.JS

**Big Data** Hadoop, HBase, Spark, Zookeeper, Kafka, Samza, RocksDB

## Talks

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### MEETUPS

Apr. 2017 **Suuchi - Distributed System Primitives**, DevDay

[Slides](#) | [Video](#)

Nov. 2016 **Building Distributed RocksDB**, Geeknight Chennai

[Slides](#) | [Video](#)

Apr. 2016 **Running Infrastructure on Spot instances in AWS**, Geeknight Chennai

[Slides](#) | [Video](#)

### CONFERENCES

April 2018 **Why we built a distributed system**, DSConf 2018

[Slides](#) | [Video](#)

Nov. 2017 **Using Monoids for Large Scale Aggregates**, Scala.io France

[Slides](#) | [Video](#)

Nov. 2016 **Lessons from managing Hadoop clusters on AWS @indix**, DevopsDays India

[Slides](#) | [Video](#)