

Professional Experience

Gracenote Inc. // gracenote.com // Software Engineer // Sept'15 - Now

- Designed/Developed new company-wide AWS based scalable, fault-tolerant subscription-based *shared data service* pipelines as *Scala/Java* and *Spark* apps deployed through containers in *Mesos/DCOS* to ingest data sources for all Gracenote product verticals communicating via *Kafka & Cassandra*. [AWS:S3/SQS/Dynamo]
- Built from scratch a distributed micro-services architecture in a complete overhaul of technology stack that is highly available, flexible to changes, with *strict guarantees* on QOS and throughput. Few formative services are Elastic Ingestion, Dynamic Equalizer Service and Data Filter Spark Pipeline.
- Building & Maintaining CI/CD pipelines in *GoCD* with embedded testing via *AWS CloudFormation* deployed on *Mesos* managed via *DCOS*.
- Design and develop to enhance the music data ingest, transform and match-finder systems in *C#* on *.NET* platform for Gracenote from processes handling terabytes of data across Oracle, SQLServer, Hadoop & MongoDB daily across platforms.

SmartFocus Inc. // Software Engineer Intern // May'14 – Dec'14

- Responsible for upgrades & maintenance of the web search portal over Spring MVC and Apache SOLR. Created RESTful service architecture using Hibernate to expose domain data in MySQL as an API to customer facing sub-systems.

Wize Commerce Ltd. // nextag.com // Software Engineer // May'11 - Jul'13

- Developed core Product Catalog technology stack for high-volume (~140 mill Products/12 hours) & high-availability (24x7) tasks written on Spring Batch Framework with HBase to import partner catalogs like Rakuten.jp, Ebay.com etc.
- Developed the architecture for Product Catalog to classify product & merchant data exposing them through APIs, and created high-revenue features on the Search Page & Product Page of Nextag.com from them [Hibernate/JS/JSP/Lucene]
- Optimized the response-time of the high-revenue Search Page of Nextag.com using Bloom Filters to optimize MySQL lookups by 100-200ms, JavaScript & CSS performance on page-load by 200-350ms, increasing sales [Java/JQuery/SQL]

Samsung India Software Operations // Software Engineer // Jul'09 – May'11

- Developed automatic Data-Network [LTE/GSM/CDMA] selection in LTE stack in Android Eclair/Froyo Telephony Framework for the first LTE phone in America by Verizon, 'Stealth V'. [Android Framework/Java/C/C++]
- *Pilot Project*: Developed, then new, Tap-to-Focus feature for the Android Cupcake Camera App for all shooting modes (burst/panorama/macro), implemented support on all modules of Android Framework, from hardware interface to the camera app. [Android Framework/Java/JNI/C++]

Education

MS in Computer Science // University at Buffalo, SUNY // 3.75/4.0 // 2013-2015

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| <i>Masters Thesis</i> | ○ Online Techniques to find Sub-Trends within topic-streams of documents [Python/MongoDB] |
| <i>Information Retrieval</i> | ○ Topic Modelling on Twitter #trends 🐙 github.com/ravioactive/trendcom [Python/Gensim/MongoDB] |
| | ○ Location-aware News Search 🐙 github.com/ravioactive/locnews [Apache Solr/Java/Spring] |
| | ○ Indexer System on Wikipedia articles 🐙 github.com/ravioactive/wikiindexer [Java] |
| <i>Machine Learning</i> | ○ Search Parameter Tuning on Microsoft LETOR 🐙 github.com/ravioactive/letor [Matlab] |
| | ○ Hand-written digits Recognition 🐙 github.com/ravioactive/digitrecog [Matlab] |
| <i>Data Intensive Comp.</i> | ○ Exploratory Data Analysis of Earthquakes in 2013 🐙 github.com/ravioactive/quakeeda [R] |
| | ○ Twitter Analysis & User Clustering 🐙 github.com/ravioactive/twittermapred [MapReduce/Hadoop] |

B. Tech in Computer Science // National Institute of Technology (NIT), Rourkela, India // 7.13/10.0 // 2005-2009

Projects: *Yale Hack 2014* ○ Gesture emulation on Android with LeapMotion 🐙 git.io/hibH [Python/AndroidSDK]

Skills **Platforms** ○ Scala, Java, Python, C/C++, Spark, Kafka, Cassandra, AWS, SQL, MongoDB, Spring, Apache Solr, C#, .NET
Tools ○ Mesos, ScalaTest, JUnit, TestNG, Git, SVN, JIRA, GoCD, Jenkins, Google PageSpeed