

Professional Experience

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 to import products/models/entities from partners like Rakuten.jp, Ebay.com etc. [Hbase/Spring Batch]
- Developed the architecture for the Product Catalog to integrate, classify product & merchant data in high-revenue product categories into meta-data and exposing them as services through APIs [Hibernate/Java/SQL/Lucene]
- Developed high-revenue features on the Search Page & Product Page of Nextag.com using these APIs [JSP/Java/JS]
- 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/JS/SQL]
- Developed internal tools for analysts to increase product catalog quality [Spring MVC/Java/SQL]
- Independent technical migration & configuration the main WebApp Nextag.com to Nextag.nl (Netherlands)

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

- Developed automatic Data-Network [LTE/GSM/CDMA] selection in LTE stack in Android Eclairs/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++]

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

- Responsible for developing new functionality and upgrading features of the web search portal. Designed and developed features working between the search stack and webapp [Apache Solr/JQuery/Spring MVC/Hibernate/MySQL]
- Established the architecture for application domain data to be exposed through RESTful services to be independently called by all sub-systems within the firm's various subsystems [Spring REST/Hibernate/MySQL]

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/twittermapped | [MapReduce/Hadoop] |
| <i>Modern Networking</i> | ○ Remote Message Exchange System ○ Distance Vector Routing Protocol | [C] |

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 ○ Java, Python, C/C++, JavaScript, SQL, JSP, R, MongoDB, jQuery, Spring, Apache Solr, Tomcat

Tools ○ Git, SVN, JIRA, Jenkins, Google PageSpeed, Chrome SpeedTracer, SQL Developer, Junit, JMockIt/TestNG

Design ○ Scalable, High-performance, Multi-Threaded Systems, Test Driven Development, Agile Development