

OBJECTIVE:

To build create software systems that tame complexity

EXPERIENCE:

- Search and Analytics, Getit Infoservices Pvt. Ltd.** - Gurgaon, Haryana, India 09/14 - Present
- Complete from-scratch architecture, design, implementation of all **search** offerings across all of the company's major businesses. Includes e-commerce product catalogs, SME business listings, deals, C2C ads
 - Geo-spatial targeting, one-of-a-kind relevance model for highly structured documents; auto suggestion, auto-complete functionality across all document types.
 - Relevance modelling and tuning, custom query structuring (parsing), measurement, noise reduction, feedback, feature engineering
 - Core Product Catalog and Dynamic Pricing Rule Engine redesign and engineering
 - Foundational, leading member of engineering team, bootstrapping micro-services architecture, overall technical decision-making is a core responsibility
- Tools: Elasticsearch/Lucene-core, Kafka, Spark, PostgreSQL, MySQL, Neo4j, Redis, Scala, Python
- Senior Software Development Engineer, Expedia, Inc.** - Gurgaon, Haryana, India 04/13 - 09/14
- Building tools for data analytics over Hadoop infrastructure. Hive, HBase, HDFS, distributed in-memory computing frameworks
 - Service and Infrastructure Health Monitoring and Analytics system atop Hadoop, Storm, Titan/HBase, Spark
 - Parsers, FSTs, new IO Formats, SerDe for Hadoop
 - Query Language and Engine for cross data-source querying
 - Technical leadership, technology evaluation and selection for the analytics stack
- Tools: Hadoop, Hive, Java, SQL Server,
- Technical Lead, Search, Cleartrip.com** - Bangalore, Karnataka, India 01/12 - 03/13
- **Search and Recommendations** Engine design and implementation for Cleartrip's travel research and planning offering (SmallWorld).
 - Data acquisition (**crawling**), aggregation and **de-duplication** framework for geographical data from multiple sources
 - Extensive customisation of **Lucene** for controlled **relevance**
 - Built a near-real-time platform for search and analysis of **geographical** data
- Skills: Algorithms + Data Structures, Java, C++, Lucene internals, OpenNLP, Neo4j, Mahout, JavaCC, Redis, MongoDB, Ruby
- Search Architect, S. S. E., Naukri.com (Info Edge (India) Ltd.)** - NOIDA, UP, India 10/09 - 01/12
- Architecture and development of single **search platform** and its integrations underlying all core offerings;
 - **information retrieval** (acquisition, preprocessing, relevance, filtering, ranking, aggregation)
 - **information extraction** (heuristics, rule-systems, supervised and unsupervised structure learning and analytics, matrices)
 - Built from scratch over Lucene Core, still in production in 2016.
- Skills: Algorithms + Data Structures, Java, C++, Lucene internals, JavaCC, PHP
- Software Development Engineer, Microsoft India (R&D) Pvt. Ltd.** - Hyderabad, A.P., India 10/06 - 04/08
- Project: **Enterprise Data Warehouse**
- Design and development of ETL processes for data warehouse applications serving Microsoft's Enterprise Services business. Technologies used include SQL Server 2005/2008, SQL Server Analysis Services, C#
- Associate, Technology, Sapien Corp. Pvt. Ltd.** - Gurgaon, Haryana, India 2/04 - 7/04
- Software Developer, EBusinessware, Inc.** - Gurgaon, Haryana, India 8/03 - 1/04

TECHNICAL PROFICIENCY:

- *Conceptual Areas:* Information Retrieval, Algorithms, Data Structures, A.I., Distributed Systems
- *Search, Information Extraction, Data Engineering:* Apache Lucene, OpenNLP, Hadoop Ecosystem, Spark
- *Programming Languages:* Scala, Java, Python, C++, C#, Perl, JavaScript, PHP
- *Data Stores/Engines:* Elasticsearch, Solr, MySQL, Postgres, MongoDB, Neo4j, Microsoft SQL Server, Redis

ACADEMIC QUALIFICATIONS:

- **Graduate Education** (2004-2006)
Institution: Indian Institute of Technology, Madras, Chennai, India
Degree Program: **Master of Science in Computer Science and Engineering**
CGPA: 8.0/10.0
- **Undergraduate Education** (1999-2003)
Institution: Morehouse College, Atlanta, GA, USA
Degree Program: **Bachelor of Science in Computer Science with minor in Mathematics**
CGPA (CS): 3.70/4.00 CGPA (overall): 3.34/4.00
- **High School Education**
Institution: Modern School, Barakhamba Road, New Delhi
Board: CBSE
Class X %age: 89.0% Class XII %age: 79.0% (Science stream, 98% in Computer Science)
- **Standardised Test Scores**
GRE (general) – 2002
Quantitative: 800 Verbal: 570 Analytical: 5.0/6.0
GATE (Computer Science) – 2004
Rank: 387 Percentile: 98.87

LEADERSHIP:

- **Tech Review board member**, Naukri.com Technology Team (2010 – 2012)
- **President**, Computer Science Club, Morehouse College (2001 - 2002)
- **Editor / Webmaster**, International Students' Organization, Morehouse College (2000 - 2001)
- **Captain**, Programming Team, Modern School, New Delhi, India (1998 – 1999)
- **Secretary**, Computer Club, Modern School, New Delhi, India (1998 – 1999)

HONORS, ACHIEVEMENTS AND ACTIVITIES:

- **Info Edge Star Award** for Contributions to the Search Platform and its applications (2011)
- **Microsoft IT Deliver-IT award**, Microsoft, Hyderabad (2008)
- **Appreciation for Dev Community Contributions**, Microsoft, Hyderabad (2008)
- **Award for Outstanding Performance**, Dept. of Computer Science, Morehouse College (2003)
- **Second Place, Programming Contest**, Division Two - ACM Southeast USA Region (2001)
- **Third Place, Programming Contest**, Division Two - ACM Southeast USA Region (2002)
- **First Place, Computer Science Olympiad**, Spelman College (2003)
- **First Place, Programming Contest**, Atlanta University Center (2001)
- **Full Academic Scholarship**, Morehouse College (Fall 1999 - Spring 2003)
- **Best Computer Programmer**, Modern School, India (1998 - 1999)
- **Excellence in Organizational Ability**, Modern School, India (1998 - 1999)

CONTACT INFORMATION:

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HOBBIES:

Reading, Creative Writing, Music, Rhetoric, Travel

REFERENCES: shall be furnished upon request