

OBJECTIVE:

Engineering and Science for Search, Relevance and Discovery

EXPERIENCE:

- Principal Software Engineer, OneSearch, HERE Technologies** - Berlin, Germany 09/18 - Present
- All things Search, relevance, ontologies, custom scoring/(re-)ranking, scalability, low-latency, distributed computing, core algorithms, query rewriting/planning, ...
- Tools: Lucene, Java, Python, Scala
- Senior Software Engineer, Search & Personalization, Zalando SE** - Berlin, Germany 10/16 - 08/18
- Core Search systems and API architecture, design and engineering. Engineering and architecture for data ingestion, tracking, query-understanding, re-scoring, machine-learned and personalized re-ranking, result-interleaving, tracing and relevance evaluation
 - Ownership of core infrastructural services including Elasticsearch (previously Solr) clusters, Kafka, search gateway service
- Search and Analytics, Getit Infoservices Pvt. Ltd.** - Gurgaon, India 09/14 - 09/16
- 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 modeling 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, India 04/13 - 09/14
- Map-Reduce analytics pipelines, A/B Test analytics, Custom Hive plugins, UDFs/UDAFs, NRT APM analytics engines, Parsers/IOFormats, FSTs
 - Technical leadership, technology evaluation and selection for the analytics stack
- Tools: Hadoop, Hive, Java, SQL Server, Spark
- Technical Lead, Search, Cleartrip.com** - Bangalore, 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 customization 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, India 04/08 - 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 (BI), Microsoft India (R&D) Pvt. Ltd.** - Hyderabad, India 10/06 - 04/08
- Associate, Technology (BI), Sapient Corp. Pvt. Ltd.** - Gurgaon, India 02/04 - 07/04
- Software Developer (Java), EBusinessware, Inc.** - Gurgaon, India 08/03 - 01/04

TECHNICAL PROFICIENCY:

- Conceptual Areas: Information Retrieval, Algorithms, Data Structures, A.I., Distributed Systems
- Search, Information Extraction, Data Engineering, Machine Learning: Apache Lucene, OpenNLP, Hadoop Ecosystem, Spark, TensorFlow
- Programming Languages: Scala, Clojure, Java, Python, C++, C#, Perl, JavaScript, PHP
- Data Stores/Engines: Elasticsearch, Solr, Kafka, 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)
- **Standardized 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)
- **Captain**, Programming Team, 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)

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