adichad@gmail.com

Resume

Engineering and Science for Search, Relevance and Discovery

EXPERIENCE

Staff Software Engineer, Search, TomTom Location Technologies GmbH - Berlin, Germany 09/22 - Present All things Search, Multi-Tier Search Architecture, Staff Engineering Community, Relevance, ML Lucene, Vespa, OpenSearch, ... Principal Software Engineer, OneSearch, HERE Technologies - Berlin, Germany 09/18 - 08/22 All things Search, relevance, ontologies, custom scoring/(re-)ranking, scalability, low-latency, distributed computing, core algorithms, query rewriting/planning, BYOD (search as a platform) Tools: Lucene, Java, Python, Scala, Kubernetes 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, resultinterleaving, 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 Search, Data and Backend Systems, Technology Strategy as first IC hire in subsidiary: Askme.com 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 - 03/13Search 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 04/08 - 01/12 Search Architect, S. S. E., Naukri.com (Info Edge (India) Ltd.) - NOIDA, India 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) 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 - 08/04

TECHNICAL PROFICIENCY

- Conceptual Areas: Information Retrieval, NLP, Machine Learning (for Text and Search), Distributed Systems, Data Engineering, Databases, Algorithm Design and Analysis
- Programming Languages: Scala, Java, Python, ...
- Tech: All major Search Engines, RDBMS, NOSQL, Streaming (Kafka, Flink), Spark

ACADEMICS

Graduate Education (2004-2006)

Indian Institute of Technology, Madras, Chennai, India Institution: Degree Program: Master of Science in Computer Science and Engineering CGPA: 8.0/10.0

Undergraduate Education (1999-2003)

Morehouse College, Atlanta, GA, USA Institution: Degree Program: Bachelor of Science in Computer Science with minor in Mathematics CGPA (CS): 3.70/4.00 CGPA (overall): 3.34/4.00

K-12 Education (1985-1999)

Modern School, Barakhamba Road, New Delhi Institution: CBSE Board:

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)
- President, Computer Science Club, Morehouse College (2001 2002)
- Captain, Programming Team, Modern School, New Delhi, India (1998 1999)

CONTACT INFORMATION

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Resume

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