ADITYA VARUN CHADHA

+918130802929, adichad@gmail.com

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, *Sapient 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:
Phone: +91 8130802929 | Email: adichad@gmail.com | Skype: adichad
Address: I-39, Jangpura Extension, New Delhi - 110014, India
Web: http://www.github.com/adichad, http://www.linkedin.com/adichad

HOBBIES:
Reading, Creative Writing, Music, Rhetoric, Travel

REFERENCES: shall be furnished upon request