ADITYA VARUN CHADHA

Resume
adichad@gmail.com

OBJECTIVE:

Aim is to build intelligent software systems that serve billions.

EXPERIENCE:

Full Time (4+ Years)

Search Architect, ***Naukri.com (Info Edge (India) Ltd.)*** - NOIDA, UP, India 10/09 - Present

Team: **Search Platform**

Primary contributor to the information extraction and retrieval architecture underlying all applications that feature search over unstructured text.

Responsible for the design, implementation, benchmarking and integration of solutions for information extraction (dimensionality reduction and structuring using automated tagging techniques and statistical analytics) and retrieval (acquisition, preprocessing, ranking, aggregation, rendering).

Active contributor to the design of processes for repeatable, high quality tech. delivery that are followed across all teams.

Senior Software Engineer, ***Naukri.com (Info Edge (India) Ltd.)*** - NOIDA, UP, India 04/08 - 10/09

Team: **Search Platform**

Design and Implementation of key features of the Naukri Search Engine, including customized ranking, sorting, aggregation and rendering algorithms. Key responsibilities include supporting complex full-text queries of close to a terabyte of semi-structured (textual) data. Acquired in-depth hands-on expertise in open source search engines technologies such as Lucene, Sphinx, including the customization of matching, ranking, filtering and rendering algorithms.

Core work included generic feature design and implementation inside and around the Naukri Search Engine using various languages like C++, Java, Perl, PHP. Implemented various SQL-like expressions for customized filtering, sorting, and aggregation. Primary job is also to conduct R&D in machine-learning algorithms for information extraction and comprehension.

Our in-house engine supports close to a million full-text searches over about a terabyte of semi-structured textual data every day across 17 different applications.

Software Development Engineer, ***Microsoft India(R&D) Pvt. Ltd.*** - Hyderabad, A.P., India 10/06 - 04/08

Project: **Enterprise Data Warehouse**

Typical work includes 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, .NET framework 2.0 (C#). Key contributions include innovations like code generation wizard that standardizes significant portions of development work for ETL processes, zero bug delivery of key components of Microsoft's Enterprise Data Warehouse.

Proofs of Concepts Delivered/Presented:

- Remodeling Microsoft's Enterprise Services Warehouse using the Data Vault paradigm
- Data mining for predictive analysis for enhanced decision support in the Enterprise Software Services domain

Associate, Technology, ***Sapient Corp. Pvt. Ltd.*** - Gurgaon, Haryana, India 2/04 - 7/04

Re-design and implementation of the Customers, Hotels aspects of Opodo.com Data-warehouse; activities included designing and implementing ETL strategies using Informatica, schema re-design (to snowflake schema), and report design and generation using Business Objects.

Software Developer, ***EBusinessware, Inc.*** - Gurgaon, Haryana, India 8/03 - 1/04

Development and Maintenance of E-Submissions application for Prudential Insurance using J2EE, VC++, IBM DB2, IBM WAS 5. Responsibilities included mission-critical coding, bug-fixing, version control and documentation.

TECHNICAL PROFICIENCY:

- *Conceptual Areas*: Information Retrieval, Machine Learning, Data Structures, Algorithms, O. O. Design, A.I.
- *Search and Information Extraction*: Apache Lucene, Sphinx, Weka
- *Programming Languages*: C, C++, C#, Java, Lisp, Perl, Scala, Groovy, PHP, JavaScript
- *Distributed Systems*: Java RMI
- *IDEs*: Microsoft Visual Studio, Eclipse
- *Databases*: MySQL, Microsoft SQL Server 2005/2008, Oracle 8i, MS-Access
- *Data-warehousing*: Informatica, Business Objects, SSIS, SSAS
- *Operating Systems*: MS Windows, Linux

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:

- **President**, Computer Science Club, Morehouse College (2001 - 2002)
- **Secretary**, Computer Science Club, Morehouse College (2000 - 2001)
- **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:

- **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)

PROJECTS:

Heuristic Search Planner, *IIT Madras* – Chennai, India 2/05 – 5/05

A generic planner for the STRIPS specification language, implemented in Java using the A* - search paradigm. Heuristic values are extracted via construction of the relaxed plan graph generated from the input problem.

Undergraduate Honors Thesis, *Morehouse College* - Atlanta, Georgia, USA 1/03 - 5/03

Research "On the N-Queens problem - Analysis, comparisons and improvements on known algorithms (Theory and Implementation)" in partial fulfillment of requirements for graduation with departmental honors

Undergraduate Project, *Morehouse College* - Atlanta, Georgia, USA 1/03 - 5/03

Development, deployment and testing of a Distributed Scientific Computing System using Java RMI technology; named **Best Project of the year**.

CONTACT INFORMATION:

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HOBBIES:

Reading, Creative Writing, Music, Cricket, and Cooking

REFERENCES:

Furnished upon request