

Curriculum Vitae

Aditya Pratap Singh

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Work Experience

- **Software Development Engineer at Amazon**, Hyderabad, India (*August 2012 – Present*)
 - Identity & Tax Services
 - Worked on various projects related to Identity Services (some of which include supporting mobile authentication in China, re-architecting an old business-critical C++ service to a new Java service, supporting secure propagation of CPF, Brazil's equivalent of SSN, from front-end layer to our backend service, etc.).
- **Software Engineer Intern at Facebook**, Palo Alto, California (*May 2011 – August 2011*)
 - Ads Infrastructure Team
 - Worked on three projects related to Ads Review and Ads backend (which included building the Facebook Ads Similarity System for detecting fraudulent accounts).

Publications

- **Topic-centric Recommender Systems for Bibliographic Datasets.** Aditya Pratap Singh, Kumar Shubhankar, Vikram Pudi. In: *Proceedings of the 8th Conference on Advanced Data Mining and Applications*, ADMA 2012, Nanjing, China.
- **An Efficient Algorithm for Topic Ranking and Modeling Topic Evolution.** Kumar Shubhankar, Aditya Pratap Singh, Vikram Pudi. In: *Proceedings of the 22nd International Conference on Database and Expert Systems Applications*, DEXA 2011, Toulouse, France.
- **A Frequent Keyword-set Based Algorithm for Topic Modeling and Clustering of Research Papers.** Kumar Shubhankar, Aditya Pratap Singh, Vikram Pudi. In: *Proceedings of the 3rd Conference on Data Mining and Optimization*, DMO 2011, Bangi, Malaysia.
- **An Efficient Algorithm for Ranking Research Papers Based on Citation Network.** Aditya Pratap Singh, Kumar Shubhankar, Vikram Pudi. In: *Proceedings of the 3rd Conference on Data Mining and Optimization*, DMO 2011, Bangi, Malaysia.

Education

- **B.Tech + MS by Research, Computer Science and Engineering** (2007 – present)
International Institute of Information Technology, Hyderabad, India
Cumulative Grade Point Average: 8.83/10.0
Thesis: Topic-centric Recommender Systems for Bibliographic Datasets
(http://web2py.iit.ac.in/research_centres/publications/view_publication/mastersthesis/164)
Advisor: Dr. Vikram Pudi (<http://faculty.iit.ac.in/~vikram/>)
- **XII, ISC Board** (2005 - 06)
City Montessori Inter College, Lucknow, India
Percentage: 95.75%

Achievements (Technical)

- Currently ranked **212nd** in the world (as on 4th January, 2014; best rank of **85** in January, 2012) on the popular online programming site **Sphere Online Judge** (SPOJ). SPOJ has over 231,000+ registered users and 3,500+ affiliated institutions. I have solved more than 440 problems there.
SPOJ Handle: <http://www.spoj.pl/users/adityasinghhh/>
- Ranked **5th** in the onsite and **9th** in the online round of **2011 ACM-ICPC Asia Amritapuri Multisite Regionals** (December 2011, Team Handle: *Anti_Thesis*)
- Ranked **10th** in the onsite and **3rd** in the online round of **2011 ACM-ICPC Asia Kanpur Regionals** (December 2011, Team Handle: *Anti_Thesis*)
- Ranked **30th** in the world and **2nd** in India in Bitwise 2012 organized by IIT Kharagpur (February 2012, Team Handle: *Anti_Thesis*). More than 5200 participants from 83 countries.
- Ranked **5th** in the **2010 ACM-ICPC North India Multi-Provincial** contest organized by IIT Delhi (October 2010)

Achievements (Academic)

- Recipient of the **National Talent Search** scholarship given by the Government of India (2003-04)
- Received the **Student of the Year** award in City Montessori Inter College, Lucknow for the academic year 2004-05
- Received merit certificates from the Government of India for scoring 100 out of 100 in *Computers* and *Mathematics* in XII ISC Boards (2005-06)
- Secured an All India Rank of 3948 in IIT-JEE and 2217 in AIEEE (2007)
- Enlisted in the **Dean's Merit List** in IIIT Hyderabad for excellence in academic performance in 3 out of 8 semesters.
- Enlisted in the **Research Award List 2011** for research publications in the academic year 2010-11.

Relevant Courses

<i>Monsoon 2007</i>	Computer Programming, IT Workshop I – Computer Systems & Environment, Mathematics I
<i>Spring 2008</i>	Data Structures, IT Workshop II – Scripting, Computer Organization, Mathematics II
<i>Monsoon 2008</i>	Operating Systems, IT Workshop III – Software Techniques, Mathematics III, Digital Signal Processing for Computer Scientists
<i>Spring 2009</i>	Algorithms, Database Management Systems, Artificial Intelligence, Theory of Computation
<i>Monsoon 2009</i>	Data Warehousing and Data Mining, Pattern Recognition, Cryptography and Network Security, Computer Networks, Principles of Programming Language, Compilers
<i>Spring 2009</i>	Web Data and Knowledge Management, Information Retrieval and Extraction, Software Engineering
<i>Monsoon 2010</i>	Machine Learning, Introduction to Middleware
<i>Spring 2011</i>	Concurrent Data Structures, Topics in Computational Geometry

Research Projects

- Designing an algorithm for Author and Topic Recommender Systems (Spring 2011 – Monsoon 2011)
- Designing algorithms for Topic Modeling, Clustering of Research Papers and Topic Ranking (Spring 2010 - Summer 2010)
- Designing an algorithm for Ranking Research Papers based on Citation Network (Summer 2010 - Monsoon 2010)

Major Projects

- Designing an Information Extraction and Information Retrieval System on dump of Wikipedia (*Information Extraction and Information Retrieval*, Spring 2010)
- Designing a Compiler for the language Decaf (*Compilers*, Monsoon 2009)
- Designed the IIIT Blogroll (*ITWS III*, Monsoon 2008)

Positions of Responsibility

- Research Assistant at the Center for Data Engineering at IIIT Hyderabad (Spring 2012, *Monsoon 2011*, *Summer 2010*, *Spring 2010*, *Summer 2009*)
- Teaching Assistant of *Data Warehousing and Data Mining* course (*Monsoon 2010*) and *Information Technology Workshop 1* course (*Monsoon 2009*) offered at IIIT Hyderabad

Skill Set

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|--------------------------------------|--------------------------------|
| • Operating System | : GNU/Linux , Windows, |
| • Programming Languages | : C, C++, Java |
| • Scripting Languages | : Python, Bash, Perl |
| • Server - Side Scripting | : PHP, Mod_Python |
| • Database Management Systems | : Oracle, MySQL |
| • Other Tools | : MATLAB, NetBeans IDE, OpenGL |
| • Programming Environment | : Eclipse, Vim |

Declaration

I hereby declare that all the information mentioned above is true to the best of my knowledge.

End of Curriculum Vitae