

ALOK THATIKUNTA

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EDUCATION

Stony Brook University, New York

Masters of Science, Computer Science, Aug'17 - Dec'18

International Institute of Information Technology, Hyderabad, India

Bachelor of Science, Computer Science, Aug'12 - June'17

EXPERIENCE

Microsoft, Hyderabad, India

Software Engineering Intern, May - July, 2016

- Developed an application (in C#) for User Classification and creating Cohorts for Cortana. Using Fast K Means and Hierarchical Agglomerative Clustering, scaling was achieved for millions of users.

Teaching Assistant

Introduction to Databases, Science 2

PROJECTS

Wikipedia Search Engine

- Implemented an efficient search engine (in Python) on entire dump of Wikipedia data. Key steps of the development include Data Pre-processing, Secondary indexing, External merge sort and a TF/IDF based method for ranking. Supports field queries.

Mini SQL Engine

- Built a primitive DBMS (in C++) that could execute basic SQL queries. Performed various optimization such as LRU caching, Paging and Indexing.

Document Citation

- Applied modified version of Page Rank in citation network to mine authoritative information. Top k authors, conferences and publications were predicted (in Python).

Self projects

- Institute wise ranking for Codechef. Parsed user profiles to get submission information (in Python).
- Built a Grade notification system, mail is sent for any update in grades (in Python).

SKILLS

Languages : C++, Python, Javascript, SQL,

ACHIEVEMENTS

- My team was ranked 82nd, 98th at ACM ICPC Amritapuri Regionals, 2016, 2015.
- Won 1st prize in Inter batch Badminton tournament held at IIIT-H
- Problem Setter at Codecraft, an online programming competition held at Felicity, IIIT-H Annual Fest