

# ALOK THATIKUNTA

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## EDUCATION

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### **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

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### **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

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### **Wikipedia Search Engine**

- Implemented an efficient search engine (in Python) on entire dump of Wikipedia data. Data Pre-processing, Secondary indexing, External merge sort and a TF/IDF based method for ranking was done and also. supports field queries.

### **Mini SQL Engine**

- Built a primitive DBMS (in C++) that could execute basic SQL queries. Various optimizations like LRU caching, indexing were performed.

### **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

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

## ACHIEVEMENTS

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- 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