# Arun Rathakrishnan

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Department of Computer Science
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**Education**

M.S in Computer Science — Aug 2012 - Present
Stony Brook University
GPA: 3.5/4.0

B.E in Computer Science & Engineering — Jul 2006 - May 2010
Anna University, Madras Institute of Technology
GPA: 8.46/10.0

**Experience**

Applications Developer, iNautix Technologies Limited — Jun 2010 - Jul 2012

**Projects**

Parallel Breadth First Search — Mar 2013
- An optimal parallel algorithm for Breadth First Search in Cilk model.
- An implementation of the algorithm in Cilk++.

Parallel Connected Components Algorithms — Apr 2013
- Github: https://github.com/fizzfaldt/cse638-hw/tree/master/hw2
- Parallel implementation of several algorithms for finding connected components in a graph, in Cilk++.

Waiter Problem — May 2013
- Github: https://github.com/r-arun/cse523
- Heuristics for balancing weights on a surface.

Stackable Encrypted File System — May 2013
- wrapfs based encrypted file system.
- Encryption/Decryption is performed on file data in page buffers.

Decision Tree Classifier — Nov 2012
- Github: https://github.com/r-arun/AI-project
- For classification of data based on approval of loan to applicants.

Vocabulary Builder — May 2011
- Github: https://github.com/r-arun/word
- An application for improving and testing your vocabulary for GRE.

An Implementation of grep — Apr 2008
- Extends grep to support sub-expressions.
- Support for both NFA and Minimized DFA representations.

**Computer Skills**

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|---|---|
| Advanced Level | C, Python |
| Intermediate Level | Java, STL, vim |
| Basic Level | JavaScript, C++, Perl, git, LaTeX, bash, sed, Eclipse |

**Co-curricular Activities**

- Member of teams that qualified for ACM ICPC Regionals in 2012 (Greater New York Region - 9th place) and 2008 (Asia - Kerala - 16th place).
- Among the Top 5 teams in the onsite programming contest at Kurukshetra, a national level symposium at College of Engineering, Anna University.