Akshay Uttamani

+1-312-856-6588 auttamani@cs.wisc.edu
2130 University Apartment Apt 64, Madison,
WI-53726

EDUCATION

University of Wisconsin-Madison, Madison, WI
M. S. in Computer Science   **Aug 2015 to May 2017**
Coursework: Machine Learning, Human Computer Interaction

National Institute of Technology (NIT), Tiruchirappalli, India
B. Tech. in Computer Science and Engineering (CGPA: 9.65/10)   **Jul 2011 to May 2015**

EXPERIENCE

CS-537: Introduction to Operating Systems, University of Wisconsin-Madison   **Aug 2015 to May 2016**
Teaching Assistant   Instructor: Prof. Andrea C. Arpaci-Dusseau
- Designing problem sets with solutions, holding discussion sessions and office hours to assist students with writing programs in Kernel(XV6).

CMU IPTSE Winter School, NIT Surathkal
Joint learning from text and images   **Dec 2014**
Automated the process of storyboard generation for a given text, using advanced AI mechanisms like neural networks and tools like Caffe to select the most appropriate image for the text from a bank of images.

University of Saarland, Germany   **May 2014 to July 2014**
Research Intern   Mentor: Prof. Michael Backes
- Designed a secure fine-grained memory randomization technique on a per-process level that does not interfere with code sharing using concepts of complier design and operating systems (Oxymoron).

National Institute of Technology (NIT), Tiruchirappalli
Extracting Secured Information from RAM   **Jan 2014 to May 2014**
Successfully retrieved the most protected information from a system by dumping the RAM and parsing the generated image, using concepts of pattern matching , automata and programming skills in C++/Python.

Reducing Wait Time for customers at call centre   **Nov 2012**
Designed an optimized algorithm such that the waiting time of the customers at a call centre could be reduced under the given constraints, using Kelly's Cutting Plane Algorithm.

ACADEMIC ACHIEVEMENTS
- Received a special CS Scholarship at University of Wisconsin-Madison.
- Awarded a Gold Medal for securing 1st rank in the Department, class 2011-2015 at Convocation-2015.
- Consecutively awarded a Silver Medal for securing 1st rank in the institute during the academic year 2012-13 and 2013-14 at Institute Day-2014, 15.
- Selected for the prestigious DAAD-WISE scholar program and MITACS-GLOBALINK program 2014.
- Awarded with the MPI-SWS scholarship in the year 2014.
- Secured a State Rank of 36, and an All India Rank of 466 in the 13th National Science Olympiad.

EXTRACURRICULAR ACTIVITIES
- Organized the event 'Crack the Shell' during Vortex'14, a National Level Computer Science symposium.
- Co-founder of Sampanna Jeevan (www.sampannajeevan.org)- an NGO providing free quality education to underprivileged children.
- Active member of Festember Social Responsibility, a group which is working towards development of deprived NGOs and children shelters in the villages surrounding the college.
- Manager of Promotional Team of Campfestiva-a national event promoting site.

TECHNICAL SKILLS
Languages: C++, C, Java (intermediate)   **Other languages**: HTML, CSS
Scripting languages: Python, MATLAB, PHP, Shell script