**Akshay Uttamani**

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**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