

**Akshay Uttamani**  
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## **EDUCATION**

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**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**

## **TECHNICAL SKILLS**

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Languages: C++, C, Java(intermediate)

Other languages: HTML, CSS

Scripting languages: Python, MATLAB, PHP, Shell script

## **PROJECTS**

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**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**

**Oxymoron- Allowing sharing of code securely**

**May, 2014 to July, 2014**

Designed a secure fine-grained memory randomization technique on a per-process level that does not interfere with code sharing using concepts of compiler design and operating systems.

**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 center could be reduced under the given constraints, using Kelly's Cutting Plane Algorithm

## **ACADEMIC ACHIEVEMENTS**

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- Teaching Assistant for Intro to Operating Systems in Fall 2015. Duties involve student consultation, grading, etc
- Received a special CS Scholarship at University of Wisconsin-Madison.
- Awarded a Gold Medal for securing 1<sup>st</sup> rank in the Department, class 2011-2015 at Convocation-2015.
- Consecutively awarded a Silver Medal for securing 1<sup>st</sup> 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 13<sup>th</sup> National Science Olympiad.
- Awarded the Best Outgoing Student in the year 2011 by St. Paul's Convent Higher Secondary School, Ujjain.

## **EXTRACURRICULAR ACTIVITIES**

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- Organized the event 'Crack the Shell' during Vortex'14, a National Level Computer Science symposium.
- Co-founder of Sampanna Jeevan([www.sampannajeevan.org](http://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.