

▶ VINAY MENON

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EDUCATION

- ▶ **University at Buffalo, SUNY, Computer Science and Engineering** (2010 - 2011)
 - Masters in Computer Science; GPA – **3.95/4.0**
- ▶ **Delhi College of Engineering, Computer Science Department, Delhi, India** (2006 - 2010)
 - Bachelor of Engineering in Computer Science
- ▶ **C.R.P.F. Public School, Delhi, India**
 - **Topped School** in the class 12th Central Board of Secondary Education examination with **92%**.

SKILLS

- ▶ Languages: Java ,C, C++, SQL, PHP, Perl, Matlab, HTML, Visual Basic, JavaScript
- ▶ Other Technologies: OpenCV, XML, AJAX, Spring
- ▶ Platforms: Windows and Linux

EXPERIENCE / PROJECTS AND TRAINING

- ▶ **Member Technical Staff at VMware**, working on automation framework for disaster recovery product (Feb 2012 -)
- ▶ **Research Assistant** (May 2011- Dec 2011) in text mining and sentiment analysis under Prof. Rohini Srihari.
- ▶ **Research Assistant** (May 2011-July 2011) in Vision and Perceptual Machines Lab under Prof. Jason Corso.
- ▶ Internship at CERT-IN (**Computer Emergency Response Team - INDIA**), Department of Information Technology, Ministry of Communications & Information Technology, Government of India on Cyber Security in May, 2009. Created an *automated phishing reporting* tool in Perl after research into types of security exploits and their preventions.
- ▶ Packaged client-server based browser add-on implementation for automatic **e-Learning forum curation** with content from textbook and related videos. *Advanced Information Retrieval 2011*.
- ▶ Java implementation of **SQL query engine**. *Database Systems 2011*.
- ▶ Matlab implementation of Hidden Markov Model for handwriting and video gesture recognition. *Intro to Pattern Recognition 2011*.
- ▶ **Interactive search engine** for Wikipedia supporting auto-suggest and spell check and featuring multiple search models (Tweaked BM25 etc.) in C++. *Information Retrieval, 2010*. Adjudged Best Project.
- ▶ Designed and developed an implementation of a **client server based File system and Disk storage server emulation** in C using UNIX IPC. *Operating Systems, 2010*.
- ▶ Created a prize-winning **3D video search interface** using Truveo XML video search API for the *Topcoder Truveo Developer Challenge, 2008*.
- ▶ Developed a **command language and compiler** in C for a robot simulation. *Compilers, 2008*.
- ▶ Developed **transaction management software** capable of supporting high volumes in Visual Basic for accounts management for a charitable organization, 2007 - 2010.
- ▶ Developed fast MATLAB based implementation involving finding number and location of specific

English characters in an image. *Computer Vision*, 2010.

- ▶ Completed training on using AUTOCAD for creation of 2D and photorealistic 3D structures as part of the 2nd year winter training, 2007.

RESEARCH INTERESTS

Fields: **Artificial Intelligence, Image processing and Networking.**

Publications:

1. **Detecting the number of clusters in a mixture of Gaussians** in the **International Conference on Machine Learning and Computing**, 2010
 - Automatically detect the number of clusters in a Gaussian mixture data during the Expectation-Maximization algorithm using information criterion.
2. **Parameter Selection for EM Clustering using Information Criterion and PDDP** in the **International Journal of Computer Theory and Engineering**.
3. **Implementation of a Web based Reverse Image Similarity Search** at the **International Conference on Machine Vision 2010**.

AWARDS AND ACHIEVEMENTS

- ▶ **National Science Olympiad** and **Delhi Science Olympiad** scholar, 2003.
- ▶ Secured **145 rank** in Combined Entrance Exam (**CEE**) for DCE (99.83 percentile) and **rank 2642** in the all India prestigious **IIT-JEE exam** 2006 (99.12 percentile).
- ▶ Won the **first prize** in the **Topcoder Truveo Developer Challenge** competition – September 2008.
- ▶ Secured **first positions** in ‘Algorhythmus’ (**Algorithm competition**), Tech Talk (**Technical Paper Presentation**), Open challenge (**Open Source Quiz**) and **third prizes** in Snap the Net (**Network Programming**) and Jumbled madness (**IT Quiz**) and the **team prize** in Envisage 2010 conducted by Institute of Informatics & Communication, University of Delhi and AMD.
- ▶ Secured **first positions** in ‘Who dares Wins’ (**Technical Q&A Session**), ‘Techno Speak’ (**Technical Paper Presentation**), Open your mind (**Open Source quiz**) and **third prize** in Mind Matters (**IT quiz**) and the **team prize** in Sankalan 2010 conducted by the Department of Computer Science, University of Delhi.
- ▶ Secured **first position** in **Algorithm competition** in GATES’09, GTBIT.
- ▶ Won the **first position** in **Software Paper Presentation** in InfoXpression-2009 in University School of Information Technology, Delhi.
- ▶ Won the **second position** in **Envision Software Presentation** in TROIKA-2009 conducted by **IEEE**.
- ▶ Won **second position** in Ideatum (**Hardware and Software Project Presentation**) in GATES’09, GTBIT.

OTHER EXPERIENCE

- ▶ Developed and maintained websites for the charitable organization SDSSS, Delhi, India – <http://www.rohiniayyappa.com>
- ▶ Organized the team at TROIKA-2008, Annual Technical Fest of IEEE-DCE – <http://troika.dcetech.com>
- ▶ Organized the IEEE Thursday Code Breaking competition, at DCE, August 2007- <http://dcetech.com/codeDeCEit/>
- ▶ Organized MIST – The online treasure hunt for DCE in February 08 – <http://mist.dcetech.com>