

AISHWARYA VENKATARAMAN

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- Education:** **Masters in Computer Science** *Expected June 2012*
University of California, San Diego
Specialization: Distributed Computing and Web Security
- Bachelor of Technology in Information Technology** *July 2004 - May 2008*
College of Engineering, Guindy, Anna University, Chennai, India
Thesis: Music Information Retrieval System
- Relevant Courses:** Distributed Systems; Programming and Data Structures; Algorithm Design Techniques; Computer Networks; Internet Programming; Operating Systems; Computer Security; Unix Internals; Network Programming and Management; Advanced Java Programming; System Software
- Skills:** **Languages Known:** C, C++, Java, Python, Perl, PHP, Groovy.
Frameworks: Struts2, Spring, Ibatis, Grails, Django
Platforms: Unix, Mac OS X.
- Professional Experience:**
- 1) Software Developer, DE Shaw and Co India Pvt Ltd, Hyderabad, India** *Jul 2008 – May 2010*
Scriptlauncher
 - Built web interface with Java Web Services and client side Javascript to replace existing Swing client
 - Utilized internally to run Perl, Tcl scripts remotely for financial calculations.**Termite – Financial Data mining tool**
 - Refactored Java code and reduced response time by 20% for searches and updates.
 - Introduced meta data changes to eliminate redundant data storage.**Learning and Management System**
 - Added authorization to the learning and management web application used for training purposes.
- 2) Core member, Team Kurukshetra 2008, International engineering festival of Anna University** *Mar 2007 – Feb 2008*
 - Developed and maintained the website www.kurukshetra.org.in
 - Acted as liaison between Team Kurukshetra and bharathstudent.com for sponsorship.
 - Co-authored a content management system in PHP used by coordinators to update event pages.
- 3) Intern, HCL Technologies, Chennai, India** *May 2006 – Jun 2006*
Developed a web application in ASP.NET titled “Facility Movement” to facilitate HCL personnel movement to and from a new venue.
- Research Experience:** **Analyzed the Crossdomain policies of Flash Applications, UCSD, California** *Jan 2011 - Present*
 - Implemented crawler to crawl the Flash crossdomain.xml files of Alexa top 50,000 websites.
 - Build a Graph to analyze the vulnerabilities present in the cross-domain policies of these sites.
 - Found vulnerabilities in 17 % of these sites and submitted a research paper to **2011 IEEE Symposium on Security and Privacy** (Results will be out by April 22, 2011).
- Bachelors thesis - Music Information Retrieval System** *Jul 2007 – May 2008*
 - Extracted Indian classical songs from repository based on user’s query.
 - Songs were indexed based on high level features using Melodic Contour Index Scheme.
 - User query was converted to intermediate representation and pattern matching algorithms were used to match it against the song index.
- Intern, TeNet, Indian Institute of Technology(IIT), Chennai, India** *Dec 2006 – Jan 2007*
 - Built a vehicle tracking system with Google Maps API, JavaScript, PHP for Chennai City Corporation.

Teaching Experience: **Teaching Assistant, Basic Data Structures and Object Oriented Programming**, Computer Science Department, UCSD *Mar 2011 - Present*

- Will be leading discussion sections and grading programming assignments.

Awards:

- 1st in the **AMCHAM** (American chamber of commerce in India) corporate chess tournament in '09 and second prize in '08.
- 1st in **Zonal Team Chess Tournament** organized by Anna University in '06 – '07.