

# Ravi Shankar

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## PROFESSIONAL EXPERIENCE

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- Currently working as Staff Scientist at CDAC (formerly NCST )(November 2010-present)
    - Experience on developing Intrusion Prevention System (IPS) and Intrusion Detection System (IDS).Knowledge on Deep Packet Inspection (DPI), Packet Capturing Tool (Ex Wireshark, Tcpdump) etc
    - Experience on signature based, in which I am implemented the payload detection keywords (http method, http header etc).
    - Implemented secure connection between sensor and server in intrusion prevention and detection system. Securely sending the alert to the database.
  - Had also worked in ABB GISL as software developer (September 2010-October2010).
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## EDUCATION

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### 1) POST –GRADUATION

**Program-** Mtech Computer Science **Institution-** IIT Madras **CGPA-** 6.81 **Year** -2008-2010

### 2)GRADUATION

**Program-** Btech Computer Science **Institution-** NIT Surathkal **CGPA-** 6.12 **Year** -2004-2008

### 3)INTERMEDIATE

XII th , Kendriya Vidyalaya Jalpaigudi 2002

### 4)HIGH SCHOOL

X th, Kendriya Vidyalaya Allahabad, 2000

## COURSE WORK

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|---|---|
| • Performance Evaluation of Computer System | • Mathematical Concepts in Computer Science |
| • Advance Computer Architecture             | • Cryptography and Network Security         |
| • Software Engineering                      | • Advance Data Structure and Algorithms     |
| • Advance Programming lab                   | • Wireless Computer Networks                |
| • Knowledge Representation and Reasoning    | • e-Commerce                                |

## SKILLS

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- Programming : C, C++
- Scripts : Perl, Awk, HTML, Tcl
- Tools : Network Simulator-2 version-2.34, 2.33

- Operating System : Linux, Unix, Windows
- Database : MySQL, Oracle 9i, Microsoft Access, postgres

## PROJECTS

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- Performance of TCP AIMD with different buffer sizing strategies. **(1 year)**

Guide : Dr. Gaurav Raina | IIT Madras | Duration : Aug 2009- Apr 2010 | Team Size : 1

- **Aim-** The number of users and bandwidth is continuously increasing in the network due continuously increases in the size of buffers of the routers in the network. Because the size of depend on the Bandwidth Delay product (BDP) which is  $C \times RTT$ . As the bandwidth increases the size of the buffer of router also increases. So their chance that TCP might fail. My intent is to show the performance of TCP that is currently being used in small buffer regime and when it might fails in future. Also show that stability of TCP. Factor that effect TCP such as bottleneck capacity at core router and buffer sizes.

- Sequential Data-mining for Predicting Links **(1 year)**

Guide : Mrs. Saumya Hegde | NITK surathkal | Duration : Aug 2007- Apr 2008 | Team Size : 2

- **Aim-** The main aim of our project is predicting the most probable link in the website. We process all website name in specific format, and arrange in descending with respect to their frequency in the database. Observed the pattern that user accessing the links, and most frequent pattern. To reduce execution time for other for that same link.

## INDUSTRIAL EXPERIENCE

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- Did Industrial training in BHEL-electronic division in Bangalore, Karnataka during the period MAY-JUNE 2007 **(1 month)**
  - General Training – Minor knowledge of all departments at BHEL.
    1. Control Equipment(testing through actuator or software testing tool)
    2. Quality services- investigate and preventive action on critical issue by the help of quality management system.
    3. Information and Technology service- how the entire operation of all the department automated and integrated through enterprise resource planning (ERP) software.
- Did the training in BSNL –mobile division in sirsa, Haryana during the period DEC-2006. **(1 month)**
  - SDE mobile division

## POSITIONS OF RESPONSIBILITY

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- Teaching Assistant for Systems Lab in CS department of IIT Madras **(1 year)**
  - Responsible for maintaining Computers of Systems Lab
- Teaching Assistant for Central Library of IIT Madras **(6 month)**
  - Managing the database of books

## CO-CURRICULAR ACTIVITIES

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- Completed the database project of “MATRIMONIAL DATABASE” using Visual Basics and oracle.

- Done the software engineering project on “HOTEL MANAGEMENT SYSTEM” using Visual Basics and oracle.
- Develop the graphics editor using the C.

## EXTRA-CURRICULAR ACTIVITIES

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- Being a N.S.S. (National Service Scheme) member, participated & organized events like Blood Donation Camp, Beach cleaning, Tree plantation.
- N.C.C. cadet in college.
- Member of Management Forum, organized Mock tests, placement talks.
- Participated in Boat Modeling Workshop in Engineers-2006(Technical fest of NITK).
- Done Personality development & Value Education courses.
- Taken part as volunteer in STUDENT INTRANET WORLD conducted by Gov. of Karnataka.
- Membership of INSTITUTION OF ENGINEER.

## OBJECTIVE

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- To be Successful professional satisfying the needs of company, where I can use my knowledge to the best possible extent to get the maximum result, and to update my knowledge according when required by company for working as individual or as in team on the project.

## ABOUT MYSELF

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Myself Ravi Shankar, I am hardworking person and self-motivated person. I never leave the work for last day, so I begin my task from day 1. In my under-graduate college I was the active member of management club, I manage the thing well, and also organized many event in my college such as mock tests, mock interviews.

As far as my interest I loved to do work in any field that is interesting, challenging and gain lots of knowledge from it. My hobbies is playing cricket, listening music and watch movies especially movie trailers.

My ambition is to get success in my life and show my skills by putting my best effort and my efficiency in my work. I liked to join the company where I get the maximum exposure to build my career.

## GENERAL DETAILS

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Name – Ravi Shankar  
 Father's Name – Shri Prakash Ram  
 Mother' Name - Smt. Kamala Devi  
 Father' s Occupation - Defense Services (IAF)  
 Date of Birth - 27 Feb 1985  
 Gender - Male  
 Marital Status - Unmarried  
 email address - rshankar.cse@gmail.com