

Education

Master of Science (Department of Computer Science): Iowa State University, Ames, Iowa

Advisor : **Dr. Robyn Lutz**

Research Work: **Enhancing tool named formulaEditor used for model checking Safety Critical Systems and testing functionalities of tool on new models.**

Subjects Studied: Analysis of Algorithms, Theory of Computation, Software Safety, Formal Methods in Software verification, Distributed Algorithms.

Overall GPA: 3.56/4.00

Bachelor of Engineering (Department of Computer Engineering): Thadomal Shahani Engineering College, University of Mumbai, Mumbai, India

Subjects Studied: Data Structures and Analysis of Algorithms, Theory of computation, Robotics, Image Processing, Microprocessors.

Overall GPA: 3.6/4.00

Academic Work Experience

May 2008-Present : **Distance Learning Educational Project**

- Developed a website for TEGIVS project in CTLT department at Iowa State University
- Worked with technologies such as HTML, CSS and Photoshop.

Aug 2006-Jun 2007 : **Stock On The Move**

- Designed and implemented a new architecture for Yahoo, Mumbai that allows users to track their stock values and modify them using their mobile phones. The architecture was designed using the template provided by Yahoo and is based on WAP platform.
- Used Perl as the programming language, MySQL for database management and HTML, CSS for graphic interface.

May 2008-Present : **Intrusion Detection and Prevention Analyst**

- Performed analysis and classification of the existing intrusion detection and prevention systems such as Snort, Bro et al. and proxy web servers such as Squid and Apache2.
- Gained experience with technologies such as Linux, Perl, MySQL, C++.

Sep 2007- Nov 2007 : **Technical Paper on Timing requirements in Real-Time Systems**

- Designed new methods of implementing various timing requirements in AADL for real-time systems and suggested alternate solutions for existing methods as a part of coursework for CS 515 with Dr. Robyn Lutz.
- Became familiar with the architectural programming language named AADL and studied its features.

Aug 2005-Sep 2005 : **Technical Report on Honeypots (Intrusion Detection Systems)**

- Presented a technical report on types, advantages and future of Honeypots IDS.
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Feb 2006-April 2006 : **Encrypted Message Passing**

- Implemented an application allowing message passing between 2 clients in an encrypted manner.
- Became familiar with basis of JAVA.

Aug 2007- Dec 2007 : **Teaching Assistant Position**

- Worked as a Teaching Assistant in Iowa State University in fall 2007 semester.

Technical Skills

<i>Programming Languages</i>	C, C++, Java, Perl
<i>Operating Systems</i>	Microsoft Windows, Linux, MS-DOS
<i>Tools</i>	AADL, Rational Rose, SPIN model checker, Eclipse
<i>Databases</i>	MS Access, SQL, MySQL
<i>Web Skills</i>	HTML, CSS , Java Script, JSP, XML, ASP

Leadership/Activities

- Worked as the Head of the e-security group in affiliation with the Mumbai Crime Cell, Mumbai Police. Organized technical events for awareness of students against cyber crime.
- Managed a group of 4 people for a project with Yahoo Mumbai.

References

1. Dr. Robyn Lutz
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2. Dr. Samik Basu
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