<u>**Curriculum Vitae**</u>

Name: **Savitha Krishnamoorthy**

Sex: Female

Date of Birth: 14th March 1981

Educational Qualification: B.E. (Hons)

Graduating Date: June 2002

Major Branch of Study: Computer Science

Email address: ksavi_81@yahoo.co.in

Current CGPA: 9.51/10

GRE Score: 2230

Verbal: 700

Analytical: 730

Quantitative: 800

TOEFL: 300 (Computer Based Test)

TSE: 50

Software Skills:

Languages Known: C, C++, VC++, Java

Packages worked on: SQL, MS Excel, BSD Sockets

Platforms worked on: Windows, Linux, Unix, Solaris

Areas of Interest:

1. Computer networks and Network Security

2. Intelligent networks

3. Parallel and Distributed computing

Core Computer Science courses:

1. Data structures and algorithms

2. Digital electronics and computer organization

3. Computers and Programming

4. Operating systems

5. Programming languages and compiler construction

6. Advanced computer organization

7. Database systems

Courses relevant to interest and Grade:

1. Fuzzy Logic and Applications   A

2. Computer Networks   A

3. Network Security   A

4. Parallel Computing   A

Projects:

1. Paperless Office:
Guide: Prof. K.Venkatasubramanian; Grade: A
Worked on Paperless Office, software written in VC++. The project aimed at capturing an office environment as objects and providing the end user means to store different kinds of files in the same software.

2. Developed a protocol using the concept of Active Networks, to provide a solution against Denial of Service (DOS) attacks. This project was presented on behalf of the Computer Science Association, for an annual science exhibition held in BITS, APOGEE. The project was nominated as best theme-oriented project from the association. It used C language, the C socket library and kernel level programming for implementation. The project was presented for Cyber fiesta, a national level software competition.
This was not done as a graded course but outside curriculum.

3. Design and implementation of a security system for IPV6 inter-networks:
Guide: Prof Rahul Banerjee; Grade: A

In this project we built firewall for the IPV6 systems. Used extensive kernel level programming and data structures.

4. Design of a toolkit for agent based applications:
Guide: Dr Sanjay Srivastava; Grade: A

Agents are software that may exhibit advanced features as mobility and intelligence. In this project we wrote a tool, using RMI and thread communication features of Java. This project provides the basic interfaces to create agents, to allow communication among themselves and between them and other nodes of the network. We also built a distributed agents application using the tool kit.

5. Certificate Authority:

As part of the Network Security Course, I worked on a Certificate authority application using C socket library. This project used symmetric key algorithms like DES and IDEA and RSA public key encryption algorithm, implemented by me.

Work Experience:

1. Industrial summer training at ALSTOM, Chennai, on **Fine Tuning and Analysis of Material Database in SAP R/3 Using MS Excel**. This project required analysis material database available and to be procured on the basis of demand and cost of the material, also managing and updating the material database. I worked in the Supply Management department and was awarded a certificate of excellence for my work.

2. Internship at Texas Instruments:
Project Guide: Mr Vijay Sindagi, Project Manager, DSP Design

Worked on TMS320C3x DSP, to enhance it to execute Java. I am currently working on the project at Texas Instruments India Pvt. Ltd. The project involves simulating the enhanced DSP and to analyse the hardware and software issues with the modified Instruction Set Architecture.
Duration: 6 months

Teaching Experience:

I took up laboratory assistantship this semester and it proved to be a great teaching experience. I was lab instructor for a core computer science course, Computer Organization and Architecture. Labs were conducted every week. As part of the work, I taught Intel 80X86 Assembly programming. I decided a topic for the lab, made handouts to give information about the topic, explained basics of programming and the topic of the day, and finally tested their understanding of the day's lab work. Other than this I also gave assignments and evaluate them on the basis of Logic, User Interface, and efficiency of code and output.

Extra Curricular Activities:

1. Singing classical Indian music. I have also performed on many occasions at BITS and outside.

2. Writing short stories, essays and poetry in English. Many of my stories have been published in children's magazines like Gokulam.

3. I was part of the school team for badminton

4. Participating in elocution, debates and extempore