NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

P.O SRINIVASNAGAR, MANGALORE-575025

Placements 2009-10

SUHAS J MANANGI B.TECH

Branch : COMPUTER SCIENCE
Gender : MALE
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PRESENT ADDRESS	PERMANENT ADDRESS
ROOM NO. A102 MEGA BLOCK, NITK HOSTELS NITK SURATHKAL KARNATAKA 575025 INDIA	S/O M JAYAPPA #219, ALIS VILLA ROYAL GARDENIA, R S LAYOUT BOMMASANDRA, HOSUR ROAD BANGALORE - 560099

B.TECH DETAILS

SEMESTER	YEAR	S.G.P.A	C.G.P.A
SEMESTER 1	DEC 2006	7.86	7.86
SEMESTER 2	MAY 2007	7.92	7.88
SEMESTER 3	DEC 2007	7.83	7.87
SEMESTER 4	MAY 2008	6.19	7.42
SEMESTER 5	DEC 2008	7.28	7.39
SEMESTER 6	MAY 2009	7.92	7.48
SEMESTER 7	DEC 2009	7.87	7.52

PRE DEGREE, 10+2th, 10th DETAILS

DISCIPLINE	INSTITUTION	UNIVERSITY /BOARD	YEAR	% MARKS
Xth	SAINIK SCHOOL BIJAPUR KARNATAKA	CBSE	2003	88%
XIIth	SAINIK SCHOOL BIJAPUR KARNATAKA	CBSE	2005	81%

SUPPLEMENTARY INFORMATION

EXTRA CURRICULAR ACTIVITIES

1.Won consolation prize in “2009 APL Programming Contest” conducted by Dyalog Ltd UK
2.Demonstration on “Computer Usage” in “Children’s Fest-08” organized by District Administration for School Children of Mangalore District, Karnataka
3.Presentation on the uses of internet in “Student’s World-08” organized by District Administration for School Children of Mangalore District, Karnataka
4.Tutor for the special coaching for First year Students of NITK in learning C programming
5.Class Representative during 1st and 2nd year of B.Tech, Computer Engineering in NITK
6.Executive member of Artist Forum Club of NITK
7.Student Member of IACSIT (International Association of Computer Science and Information Technology), IAENG (International Association of Engineers), ICST(Institute for Computer Sciences, Social-Informatics and Telecommunication Engineering) and IEEE-CS

ABOUT MYSELF

I am a proactive self starter, a positive team player, and an honest practitioner. I like to learn new things, and always want to be organized and efficient.
Subjects that interests me are: Programming(C/Java), Computer Networks, Data Structures and Algorithms, Cryptography

CO-CURRICULAR ACTIVITIES

PROJECT WORKS UNDERTAKEN

1.Pohlig-Hellman and Pollard' rho attack tool (Winter 2009 at NITK-Surathkal, India) Nov -Dec 2009
Project under Mr.Radhesh, Adjunct Faculty in Computer Engineering Department, NITK during which ECC based 64-Bits DL Key generator tool is built and Pohlig-Hellman attack and Pollard’s Rho attack capabilities are integrated into the tool to test the EC curves generated.

2.Internship project on Code Coverage Tool (Summer 2009 at BOSCH-India) May -July 2009
Internship at BOSCH- India, where I worked on Code Coverage Tool which does the dynamic analysis on the quality of C programs and gives detailed report in HTML format

3.Wireless Mesh Networks (Winter 2008 at NITK-Surathkal) Dec 2008
Project under Mrs.Saumya Hegde, Senior Lecturer in Computer Engineering Department, NITK during which extensive study on Wireless Mesh Networks, their Routing Protocols and Channel Assignment, and inter dependency between was carried out and produced a report

4.Project on JOOMING (Summer 2008 at IISc, Bangalore) May-June 2008
Project under Dr.Tim Poston, Professor in NIAS (National Institute for Advanced Studies), IISc Bangalore during which “JOOMING” application was built which is a text navigation software which skims through and dives into text with weighted zooming in and out capability

RESEARCH PAPERS:

1.International Conference on Cryptography, Coding and Information Security
ICCCIS 2010 March 29-31, 2010 (Rio de Janeiro, Brazil)
Accepted Paper titled “Elliptic Curve Cryptographic Security in Transmission Control Protocol” yet to be presented in the conference. This paper proposes adding security features into Transmission Control Protocol by superimposing security features into existing TCP with Elliptic Curve Cryptography.(Same is accepted in ICCNT 2010 Bangkok Thailand, ICCET 2010 Chengdu Sichuan China)

CO-CURRICULAR ACTIVITIES

2.IEEE-International Advanced Computing Conference
IEEE-IACC March 6-7, 2009 (India)
Published a paper titled "Integration of TCP/IP module into BIOS to Boot Remote Operating System". ISBN: 978-981-08-2465-5 (Paper Id: IEEE-APPL 1228). This paper is about building TCP/IP protocol stack at BIOS level thus using it to boot remote operating system (Same was accepted in WCE-2009 London UK, ICC-2009 Fullerton California, IMECS 2009 Hong Kong, WORLDCOMP 2009 Nevada USA)

CURRENT FINAL YEAR PROJECTS (Ongoing):

1.Elliptic Curve Cryptographic Security in Transmission Control Protocol:
Building security functions into the TCP protocol using Elliptic Curve Cryptography, making TCP secured thus making Application Layer free from security issues and providing process to process security.

2.Distributed DOS Attack Tool with IP-Spoofing Capabilities:
Tool to perform Distributed Denial of Service attack with forged IP (IP Spoofing). This tool helps the researchers and developers to design, implement and to test solutions against Denial of Service attacks.

OTHER CLASS ROOM MINI PROJECTS:

1.Optimization of Recursive Descent Parser by left Factoring and elimination of Left Recursion:
Optimizing the Recursive Descent Parser (Top down Parser) by performing Left Factoring and then by elimination of Left Recursion. This was work was carried out in an attempt to reduce the execution time of Top-Down Parsers.

2.Design and Implementation of DD-AES (Symmetric Private Key Block Cipher):
Built a data encryption/decryption tool in which the data dependent rotation property of RC5 was merged with AES, which had data independent rotations, attempting to make AES more secure.

3.Online Telephone Directory:
This was a data base Project in which a Universal Telephone Directory was created and a user friendly and informative GUI to access the data base.

4.Solving 9x9 Sudoku using Constraint Satisfaction – An Artificial Intelligence Approach:
Developed a program which solves 9x9 Sudoku with Constraint Satisfaction and Problem Space mechanism of Artificial intelligence.

5.Application of Grid Computing Concepts in Brute Force Attack on DES Cipher:
Developed a customized tool to establish and manage GRID system which breaks the 56bit key of DES Cipher using the established Computer Grid.

REFERENCE 1 :

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Professor at NIAS
IISc Bangalore
Karanataka
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REFERENCE 2 :

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