

Pankaj Kohli

OBJECTIVE: To establish myself as a researcher in industry and to make contributions to the field of Information Security.

EDUCATION

Qualification	Institution/University	Year	Aggregate
M.S. by Research – Computer Sc. & Engg. Research Domain: System Security	IIIT Hyderabad	2006 Onwards (Pursuing)	8.0
B.Tech – Computer Sc. & Engg.	Punjab Technical University	2006	76 %
12 th	Salwan Public School (New Delhi)	2001	71.2 %
10 th	Salwan Public School (New Delhi)	1999	70.8 %

SOFTWARE SKILLS

Programming Languages	C, C++, Java
API	JSP, J2ME (MIDP1.0, CLDC1.1)
Assembly Languages	IA-32 (GNU Assembler)
Scripting Languages	Shell
Database	MySQL
Other Tools	Latex, IDA Pro, BinDiff
Operating Systems	MS Windows, GNU Linux

PUBLICATIONS

- V. S. Sathyanarayan, P. Kohli, B. Bruhadeshwar: "Signature Generation and Detection of Malware Families", ACISP 2008.
- P. Kohli, B. Bruhadeshwar: "FormatShield: A Binary Rewriting Defense against Format String Attacks", ACISP 2008.

PROJECTS

1. FormatShield: A Binary Rewriting Defense against Format String Attacks
FormatShield works by intercepting calls to vulnerable functions in libc and identifies those call sites in a running process which are vulnerable to format string attacks. Using binary rewriting, the list of all such vulnerable call sites is dumped into the program's binary, which is available at runtime. Format string attacks are detected when malicious input is found at these call sites.
Programming Language - C
2. Malware Detection Engine using Fuzzy Pattern Recognition
A classifier to detect previously unknown malware using Fuzzy Pattern Recognition.
Programming Language – C

3. CellTrack - Cellphone Tracking System

CellTrack is a GSM based Cellphone tracking system designed to determine the geographical location of a Nokia Series-60 cellphone in the city of New Delhi. The user could view the longitude, latitude and the current location of the Cellphone on a map using a web browser.

Programming Language – J2ME

MINI - PROJECTS

1. Import Viewer
2. Network Auditing
3. Dynamic Hashing using Cut-and-Paste strategy for distributed load balancing
4. RSA Cryptosystem
5. Screen editor for MS-DOS

WORK EXPERIENCE

- Lab administrator for the research center during May 2008 – present.
- Teaching Assistant for System & Network Security course during July - Nov 2007.

ACHIEVEMENTS

- All India Rank 980 in GATE 2006
- Secured 2nd position in "System Analysis & Design" at *Crescendo (2003)* held at GGNIMT, Ludhiana

Personal Profile

Name: Pankaj Kohli
Father's Name: Mr. R. C. Kohli
Permanent Address: 63, Devdoot Apartments,
D-Block, Vikas Puri, New Delhi
Interests & Activities: Playing PC games, Surfing Internet
Languages: Hindi, English

The above statements are true to the best of my knowledge and belief.

PANKAJ KOHLI