Nancy Yadav

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EDUCATION

Northeastern University, USA   Jan 2014 - Dec 2015
Master of Science, Computer Science   **CGPA:** 3.8/4.0

- **Courses Taken:** Network Security, Applied Cryptography, Cyber Law and Ethics, Information System Forensics, Foundations of Information Assurance, Cyberspace Programming
- **Class Research Paper:** Cloud Computing and External Attacks (April 2014)
- **Leadership:** Lead an awareness session about "Women in Computing"

Maharshi Dayanand University, India   June 2010
Bachelor of Engineering, Information Technology

- **Related Courses:** Computer Networks, Database Management Systems, Operating Systems, Object Oriented Programming, Data Structure, Software Testing
- **Leadership:** Inter-college techno-fest core coordinator

Certifications
- Certificate of Training from Homeland Security for the course "Operational Security (OPSEC) for Control Systems"
- Certificate of Training from Udemy for the course "Web Application Penetration Testing"

Conference & Publication
- Presented Poster on *"Algorithm Optimization"* in CRA-W Conference -2015
- Published Big Data on BCI Research Journals 2014 (along with other two senior researchers)

Patents Contribution
- Contributed to three US patents that resulted from my research internship from Intel Corp. (Note: Name not included as an official author of patents since I was an Intern)

Volunteer Work
Solution architect and co-founder of KidsTriangle.com.
- Research, design, architect web application solution
- Prepare client presentations and finance proposal for Venture Capitalists

TECHNICAL KNOWLEDGE

Programming Languages :	C, C++, Assembly x86, Python, Java, J2EE, SQL
Web Dev Technology :	JSP, Servlets, Java Script, XML, Apache Tomcat4.1, IBM Websphere
Patterns & Framework :	MVC, Struts
DBMS :	Oracle 9i, IBM DB2
OS :	Windows, Unix, Kali, Ubuntu
Tools & IDE :	Microsoft VSS, CVS, SVN, Git, Eclipse, Microsoft Visual Studio
Other Security Tools :	Sam Spade, Nmap, Nessus, Metasploit, Wireshark, FTK, ProDiscover

PROFESSIONAL EXPERIENCE

Intel Corporation, MA, US (7+ months)   Jan 2015 – Present
Research Software Engineer Intern

Performance Optimization of Compression and Cryptographic algorithms: Problem categorization and implementing solution to improve performance.

- Explored and proposed optimized design of popular algorithms like LZ4, Deflate (Huffman Encoding, LZ77) for Intel hardware/software *[work details-confidential]*

- Proposed and designed new compression level10 for gzip algorithm
- Modified IPSec for making it configurable for Hashing algos(SHA244, SHA256, SHA384, & SHA512)

Technologies Used: C, C++, Assembly x86, AVX/AVX2/AVX3 instructions implementation, MS Visual Studio

Siemens IT Solutions, Mumbai, India (2.4 years)   Aug 2010 – Nov 2012
Software Engineer

Application Development: Research, design, architect client web portal.

- Implemented an automation project using XML in Java for a major client (Electrolux), to improve efficiency & security. This solution is still in use by eleven countries.
- Implemented JavaScript Filters to prevent Cross-Site Scripting Attacks.
- Conducted Security Awareness and Training based on OWASP Top Ten Attacks.

Technologies Used: Java, J2EE, Struts, XML, Eclipse, IBM DB2