HARSH P. VACHHARAJANI
4295 Cotswolds Hill Ln, Fairfax, VA 22030

Mobile: +1-(703) 973-6781   E-mail: harsh91@gmail.com

OBJECTIVE
Seeking a challenging position to apply my knowledge in the areas of Cryptography and Network Security.

EDUCATION
Master of Science in Information Security and Assurance   **Expected May 2015**
Thesis Title: Implementation of Secure Socket Layer in Windows Presentation Foundation
    George Mason University, Fairfax, VA, U.S.A.
    GPA: 3.3 (three semesters so far)
Bachelor of Technology – First Class, Major: Information Technology   **May 2013**
    U.V. Patel College of Engineering (UVPCE) affiliated with Ganpat University (GNU), Mehsana, and
    approved by All India Council for Technical Education (AICTE)
    GPA: 3.87

WORK EXPERIENCE
George Mason University – Research Assistant   **January 2014 - Present**
    Worked on a research project entitled "Portable Online Interactive Cyber Security Laboratory Exercises" under **Dr. Kris Gaj**, developing new laboratory exercises based on CrypTool 2 – an e-learning tool for studying cryptology.
    Implemented encryption, decryption, and codebreaking for several historical ciphers, such as shift cipher, general monoalphabetic substitution cipher, Vigenere cipher, transposition cipher, Hill cipher, Playfair cipher, and Enigma, using CrypTool 2.
    Implemented encryption, decryption and codebreaking for RSA with small key sizes, using CrypTool 1 and 2.

Tata Consultancy Services (TCS) – Student Web Developer Intern   **January 2013 - April 2013**
PAS (Performance Assessment System) – Project aimed at maintaining repository of data related to water supply and sanitation in urban areas of India, developed for Gujarat and Maharashtra Govt. Developed various modules as requested by clients in different cities, including a module responsible for converting financial data of respective cities to PDF. Used MVC Architecture (Java) and Liferay framework.

PROJECTS
Implementation and Simulation of SSL in Windows Presentation Foundation   **August 2014 – December 2014**
    Developed a stand-alone windows based application in C# using Windows Presentation Foundation to simulate and illustrate Secure Socket Layer (SSL).
Android Security and its applications   **January 2014 – May 2014**
    Developed an android application in Java using Android SDK which would lock the selected apps and ask for authentication when needed to access it to enable confidentiality and privacy of the app.
Portfolio Investment   **July 2012 - December 2012**
    Developed a desktop application in core Java, maintaining a record of the user's financial data, with two main modules, user and admin, allowing them to add/save/edit financial information in MySQL database.
Online Movie Ticket Booking   **July 2011 - December 2011**
    Developed a web application in C#, allowing a user to book a movie ticket online, with features of looking at the seating arrangements, select a seat etc.

CERTIFICATIONS
Cryptography – I (Stanford University – Online Course)

TECHNICAL SKILLS
Cryptographic Software	**:** CrypTool 1, CrypTool 2
Programming Languages	: C, C#, Java, Python
Database Systems	: Oracle, SQL Server, PL/SQL
Tools and Packages	: NetBeans, Eclipse, Visual Studio 2012, MS Office
Web Designing Tools	: HTML, JavaScript, CSS

SEMINARS / CONFERENCES ATTENDED
OSDFCon (Open Source Digital Forensics Conference)	November 2014
Cyber Forensics and Exploration	February 2013
Cloud Computing and Android OS	March 2012
Ethical Hacking	September 2011