## Niranjan Butola (ID#360227)

## Professional Summary

Over 5.94 years of experience in the field of Vulnerability Assessment and Application Security. Technically strong with good exposure of application security with hands-on knowledge of various securities related tools. Liaise with developers, project managers and users about security implementation and common security practices with respect to IT Security Standards.

Key Job Roles:-

* Initiating walk through of the assigned applications.
* Doing Information Gathering for the assigned applications.
* Performing Security Assessment for the assigned applications.
* Handling Customer Queries on VA/PT/ Web Application Testing
* Perform ethical hacks to assess the vulnerabilities of Internet/Intranet connected systems, networks, and applications.
* Generate and Present reports on security vulnerabilities for Black Box and Gray Box Testing.
* Doing follow up for closure of the reported vulnerabilities.
* Tracking open findings during major changes and project releases.
* Attending Intermediate status calls with business stakeholders and project teams.
* Educating team members and clients about new vulnerabilities/found vulnerabilities during project execution.
* Participating in client meetings to resolve ongoing security issues and suggesting how to mitigate identified risks in the application.

## Education

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| **Degree** | **University** | **Year of Passing** |
| BCA | IGNOU (Indira Gandhi National Open University) | 02/2011 |
| GNIIT(Diploma) | NIIT | 03/2013 |

## Certifications

CEH- Certified Ethical Hacker

SCJP 5.0 – Sun Certified Java Programmer

OCP – Oracle Certified Professional

## Experience

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| **Organization** | **Designation** | **Duration** |
| Tech Mahindra | Sr. Security Analyst | (10/2014) – Present |
| Sandrock e-Securities | Information Security Engineer | (02/2011) – (09/2014) |

## Technical Skills

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| Operating Systems | Windows Family |
| Languages | C, C++, JAVA |
| Databases | Oracle, MySQL |
| Web Related | JSP, Servlet, PHP |
| Tools & Utilities | ZAP, Burp Suite, Nmap, Nessus, HP Web Inspect, Acunetix, |
| Domain Knowledge | Telecom, Banking, E-Commerce |

## Trainings

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| **Sl#** | **Title** | **Location** | **Organized by** | **Duration** |
| 1 | Information Security – Level 1 | Noida | Tech Mahindra Ltd. | 1 Day |
| 2 | Application Security – Level 1 | Noida | Tech Mahindra Ltd. | 1 Day |
| 3 | Basic Telecom | Noida | Tech Mahindra Ltd. | 1 Day |
| 4 | Lean Six Sigma – Yellow Belt | Noida | Tech Mahindra Ltd. | 1 Day |
| 5 | J2EE L1 | Noida | Tech Mahindra Ltd. | 1 Day |

## Projects Profile

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| 5. | **Project Name : Web Application Penetration Testing** | | |
| **Client** | Major Telecom Services Provider in United States | | |
| **Role** | Security Analyst | | |
| **Organization** | Tech Mahindra, India | | |
| **Duration** | (01/2015) – Till Date | | |
| **Team Size** | **Project :** 20 | | **Module:** 25 |
| **Environment**  **(with skill versions)** | Software | **Tools :** Burp Suite, HPWeb Inspect  **Standards:** OWASP Top 10, PCI DSS | |

Project Description

Project consist large number of customer interactive applications available on internet as well as intranet for employees, vendors & support staff. This includes web sites, portals, business operations and mobile applications. The major business objective of project is to reduce the call to customer care representative and give user option to do all the activities online. This project further gets split into multiple web applications and mobile application. All these applications are required to be assessed for information security to protect the Confidentiality, Integrity and Availability of Customers and Employees. The assessment of these applications is carried out with application security assessments and penetration testing approach.

##### Contribution

As a team member, was responsible for:-

* Understanding user stories specified by development team and finding out their security impacts on the application.
* Analyzing new changes made to the application.
* Developing test scenarios and deciding their severity and prioritization.
* Performing penetration testing by considering all the flows of the application.
* Test web applications for vulnerabilities like SQL injection, insecure communications, Cross Site Scripting (XSS), Session Management etc.
* Raising defects in Quality Center, tracking and closer of defects.
* Analysis of findings and recommendations to mitigate the identified vulnerabilities.
* Help Project team to understand the risk & impact of the reported vulnerabilities to make patching process more reliable.
* Prepare reports for the vulnerabilities identified along with recommendation for remediation.

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| 4. | **Project Name :Web Application Penetration Testing** | | |
| **Client** | Leading Plastic Processing Organization in US | | |
| **Role** | Penetration Tester | | |
| **Organization** | Tech Mahindra, India | | |
| **Duration** | (10/2014) – (12/2014) | | |
| **Team Size** | **Project :** 2 | | **Module:** 2 |
| **Environment**  **(with skill versions)** | Software | **Tools :** Burp Suite  **Standards:** OWASP Top 10 | |

Project Description

This application was developed for a US based client to provide a CMS (Content Management System) for managing their portal content on day to day basis. Application helps client to keep track of every piece of content for their website like simple text, music, photos, videos etc. The major objective behind the application is to empower the client to easily manage their own website with themselves with minimum amount of instructions. It was a web-based application that also consist modules to handle Custom product catalogs and Data reporting tools along with publishing features that allows individuals to use a template or a set of templates that are approved by the organization. The application was required to be assessed to provide security expertise and to protect the Confidentiality, Integrity and Availability of all the content.

Contribution

As a part of the End to End Security Testing Team, I was responsible for:-

* Interaction with client right from the requirements stage to delivery of the application.
* Interaction with other team members about the daily status of the project related activities
* Developing and executing Test Cases.
* Perform and schedule manual Web Application Penetration Testing (WAPT).
* Reporting the test results in the format specified.
* Review security patches to application software, database, and system software components.
* Help Project team to understand the risk & impact of the reported vulnerabilities to make patching process more reliable.
* Retest and Report after the defects are patched.
* Ensure the closure of all security defects within the given time frame.

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| 3. | **Project Name : Web Application Penetration Testing** | | |
| **Client** | Leading Travel Portal of Spain | | |
| **Role** | Penetration Tester | | |
| **Organization** | Sandrock e-Securities, India | | |
| **Duration** | (05/2013) – (09/2014) | | |
| **Team Size** | **Project :** 10 | | **Module:** 30 |
| **Environment**  **(with skill versions)** | Software | **Tools :** Burp Suite, HP Web Inspect  **Standards:** OWASP Top 10 | |

Project Description

It was a Security Testing project conducted for a major Hotel Group of Spain. The project involved testing of all internal and external web applications that covers every aspect of planning holidays; booking travels packages, choosing the best airplane provider, reviews of hotels etc. Project also delivers tour operators, car rental companies and destination services supply partners. All these applications are required to be assessed to provide security expertise while collaborating with program managers, developers and other team members to execute on strategic and tactical goals for timely delivery of project.

Contribution

As a team member, was responsible for:-

* Developing and executing Test Cases within the given time frame.
* Performing penetration testing by considering all the flows of the application like authentication bypass, horizontal and vertical privilege escalations, SQL injection, XSS, CSRF, etc.
* Reporting the test results in the format specified.
* Review and Recommend probable solutions for the Failed Test Cases.
* Analysis of findings and recommendations to mitigate the identified vulnerabilities.
* Help Project team to understand the risk & impact of the reported vulnerabilities to make patching process more reliable.
* Retest and Report after the defects are patched.

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| 2. | **Project Name : Web Application Penetration Testing** | | |
| **Client** | Leading Financial Software Service Provider in India | | |
| **Role** | Penetration Tester | | |
| **Organization** | Sandrock e-Securities, India | | |
| **Duration** | (02/2012) – (04/2013) | | |
| **Team Size** | **Project :** 23 | | **Module:** 35 |
| **Environment**  **(with skill versions)** | Software | **Tools :** Burp Suite, Nessus, HP Web Inspect  **Standards:** OWASP Top 10, PCI DSS | |

Project Description

The application was a comprehensive web enabled deposit management system designed with the objective of providing operational, regulatory and decision-making support to effectively manage the deposits portfolio of a customer. Based on the latest technology, system can handle large volumes, high number of concurrent users along with data safety & security. Application has easy configuration so that you can define the deposit schemes as per your need. Interest parameters like compounding frequency, repayment frequency or term-based rate matrix can be configured. Also, proper controls are built into the system to avoid errors, omissions & frauds. The application was required to be assessed for information security to protect the Confidentiality, Integrity and Availability of Customers.

Contribution

As a team member, was responsible for:-

* Highlighting about the issues, risks, limitations etc. for the present and future deliverables.
* Developing and executing Test Cases within the given time frame.
* Performing penetration testing by considering all the flows of the application like authentication bypass, horizontal and vertical privilege escalations, SQL injection, XSS, CSRF, etc.
* Guiding the development team for the secure development of code to reduce illegal access.
* Reporting the test results in the format specified.
* Review and Recommend probable solutions for the Failed Test Cases.
* Analysis of findings and recommendations to mitigate the identified vulnerabilities.
* Help Project team to understand the risk & impact of the reported vulnerabilities to make patching process more reliable.
* Retest and Report after the defects are patched.
* Ensure the closure of all security defects within the given time frame.

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| 1. | **Project Name : Web Application Penetration Testing** | | |
| **Client** | Leaders in Insurance Industry | | |
| **Role** | Penetration Tester | | |
| **Organization** | Sandrock e-Securities, India | | |
| **Duration** | (02/2011) – (01/2012) | | |
| **Team Size** | **Project :** 19 | | **Module:** 30 |
| **Environment**  **(with skill versions)** | Software | **Tools :** Burp Suite, Nessus, HP Web Inspect  **Standards:** OWASP Top 10, PCI DSS | |

Project Description

The project was an Online Claim Management System with Web and Mobile applications that facilitates Insurance Companies to track claims from intimation till approvals. Application provides different modules for unique set of requirements for smooth operation. This Online System gives ample view of claims to all the contributors involved, so that the details and the current status of the claim can be accessed in Real Time. Application consists of centralized data processing to reduce the complexity in claim management. The application was required to be assessed for information security and to provide Multi-level authentication to secure application and data.

Contribution

As a team member, was responsible for:-

* Interaction with team members about the daily status of the project related activities.
* Developing and executing Test Cases.
* Perform and schedule manual Web Application Penetration Testing (WAPT).
* Reporting the test results in the format specified.
* Review security patches to application software, database, and system software components.
* Help Project team to understand the risk & impact of the reported vulnerabilities to make patching process more reliable.
* Retest and Report after the defects are patched.
* Ensure the closure of all security defects within the given time frame.

##### Personal Details

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| **Name** | Niranjan Butola | |
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| **Email Id**  **(i.e., Satyam’s email id)** | nb00360227@techmahindra.com | |
| **Passport No.** | K2329929 | **Valid Upto:** 02/20/2022  **(mm/dd/yyyy)** |
| **Type of Visa holding (if any)** | N/A | **Valid Upto :** N/A  **(mm/dd/yyyy)** |
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