

Gaurav Narwani

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Computer Engineer, looking forward to craft solutions to difficult problems in survivable cyber-physical systems and enterprise information systems. Keen technician and software programmer with extensive experience of online security packages and tools. Seeking a position with more responsibility and room to grow.

Education

University of Mumbai

Bachelor of Engineering; GPA: 7.62/10.0

Mumbai, India
May 2015 – May 2019

- Major: Computer Engineering
- Relevant Coursework: Structural Programming, Data Structures, Object Oriented Programming Methodology, Discrete Structures, Computer Organization & Architecture, Analysis of Algorithm, Theoretical Computer Science, Database Management Systems, Distributed Database, Computer Graphics, Microprocessors, Operating System, Structured & Object Oriented Analysis & Design, Computer Networks, Web Technologies, Compiler Construction, Software Engineering, Mobile Communication & Computing, Cryptography, Artificial Intelligence, Machine Learning, Soft Computing, Data Warehouse & Mining, Human Machine Interaction

Experience

Société Générale

Cyber Security Engineer

Bangalore, India

June 2019 – Present

- Performed vulnerability assessment on various applications and infrastructures like cloud, web applications, load balancers and servers belonging to Société Générale and its acquisitions.
- Incorporated frameworks such as NIST and OWASP and detected more than 200 critical and high vulnerabilities like Remote Code Execution, SQL Injection, Request Smuggling, SSRF, Cross-Site Scripting, Information Leakage on Internal GitHub etc.
- Worked closely with SOC and development teams to provide preventive measures, verify the implementation of patch and develop automation tools to expand reconnaissance scope and interpret common vulnerabilities.
- Hosted security awareness programs, vulnerability mitigation meetings, weekly podcasts and authored newsletters on importance of secure coding, phishing emails and physical security.

Olcademy

Cyber Security Intern

Mumbai, India

July 2018 – May 2019

- Assisted the security team at Olcademy to detect vulnerabilities in web and mobile applications.
- Extensively used tools like Nessus and Burp Suite to evaluate findings like SQL Injection, Cross-Site Scripting, clickjacking, CSRF, email spoofing and information disclosure on web assets.
- Inspected and generated bug reports on mobile applications using Genymotion, Drozer and mobsf framework to find issues like API keys disclosures, privilege escalations and SSL pinning.

Security Brigade

Security Researcher and Developer Intern

Mumbai, India

June 2018 – July 2018

- Developed a python script to automate the testing of Apache Struts Vulnerability (CVE-2017-5638) against multiple servers.
- Incorporated BeautifulSoup Library to scrape the source code and also simultaneously investigate the leakage on GitHub using pygithub3
- Developed a tool to inspect default credentials at specific IP address when connected to MySQL and MsSQL

Marquis Technologies

Software Developer Intern

Navi Mumbai, India

Dec 2017 – Mar 2018

- Developed a unique black box testing app to test the functionalities such as Bluetooth, Dialer, Messages, and Airplane Mode of mobile devices
- Worked on Appcelerator Titanium Framework to build, test and deploy highly optimized applications.
- Incorporated inhouse bash script to test mobile applications running on Android Studio and Genymotion

Projects

Recon Automation

Feb 2021 - Present

- Developed Using multiprocessing and priority scheduling, programmed a recon automation script in python for automated vulnerability discovery which can handle more than 100 domains simultaneously.
- Programmed the script to inspect Cross-Site Scripting, SQL Injections, Server-Side Template Injections, HTTP Request Smuggling and Subdomain Takeovers in real time, incorporating the rate limit quota.
- Incorporated automated cookie generation to crawl the application authenticated for further inspection

Trishul ([link](#))

Mar 2020

- Developed an open-source Burp extension which has more than 150 stars and 50 forks on Github.
- Used Jython to detect Cross-Site Scripting, SQL Injections and Server-Side Template Injections in real-time vulnerability detection for multiple requests
- Incorporated blind cross-site scripting payloads in requests with user-friendly customized alerts upon detection.

Default Credentials Checker Tool ([link](#))([link](#))

Dec 2018

- Tested databases like MySQL/MsSQL for any open ports to extract data by applying default credential checks with the help of a customized tool programmed in python.
- Used pymssql and MySQLdb libraries with multithreading to brute-force credentials stored in text files against MsSQL/MySQL databases.

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Projects

- System Electronic Health Record and Medicine Inventory using Blockchain** ([link](#)) Dec 2018
- Developed a storage for Electronic health records on Ethereum network using IPFS. IPFS was linked to content ids' via an Infura node to be stored in the network. Each report accessed via the id created a transaction of few ethers
 - Doctors were given permission to view patients reports to whom he was given access
- Event Management and Recruitment System @ UnScript 2018 Hackathon** ([link](#)) Mar 2018
- Worked on design and development of an android application for students, TPO & teachers for dashboard communication.
 - Acquired skills from working on various cross-platform frameworks such as TheAppBuilder, PhoneGap.
- System Attack Monitoring and Prediction System @ NSE FutureTech ML Hackathon** ([link](#)) Dec 2016 – Jan 2017
- Developed a system to monitor low-priority security alerts to analyse the pattern of attacks and predict security threats.
 - Conducted pre-processing of data which included feature engineering for Date-Time processing, assigning categorical features, encoding and scaling the data. Used K-Means clustering and PCA to develop patterns and identify outliers in the dataset.
 - Inspected malicious patterns in time series log using Long Short-Term Memory (LSTM) Networks algorithm.

Skills

Programming Languages:	Java, C/C++, XML, JavaScript, HTML, CSS, PHP, Python
Operating Systems:	Kali Linux, BackTrack, Windows, Android, iOS, Ubuntu
Tools:	Burp Suite, Nmap, Metasploit, Beef, Ettercap, Hydra, Wireshark, Aircrack, Sqlmap, Nessus
Software:	Android Studio, Visual Studio, JetBrains, IntelliJ IDEA, Mist, Adobe Suite, Remix, Shodan, Tor

Activities & Awards

Hall of Fame: Vimeo (4th), Caseys (1st), Sophos, The Things Network, Ford, Sentiance, TheTestTribe, Under Armour, Inflectra, Roamlar, Fitbit, Jet, Western Union, Humble Bundle, Puppet Labs, Overstock VDP	Sept 2018 May 2018 – Present
Swag: Octopus, Buddy Works, GeeksforGeeks, Hackerone	May 2018 – Present
Got recognized as the Star of the Quarter Q1 2020 for the trait 'Curiosity'.	March 2020
Delivered one day training to Women in Cyber Security	October 2019
Featured in Times of India Bangalore	October 2019
Participated in Brainwaves Hackathon by Société Générale (Fifth Place)	February 2019
Participated in Runs Cyber Security Hackathon (Prize Winner)	May 2018
Participated in Online Security Testing Hackathon for Jungle Rummy (First Place)	May 2018
Participated in National Stock Exchange FutureTech 2018 Machine Learning Hackathon	March 2018
Delivered a Speech on Owasp Top 10 at TheTestTribe Meetup	September 2018
Certifications: Certified Information Security and Ethical Hacking, Pristine Infosolutions	July 2017

Publications

CVE-2019-14546 – EspoCRM 5.6.8	August 2019
CVE-2019-14547 – EspoCRM 5.6.8	August 2019
CVE-2019-14548 – EspoCRM 5.6.8	August 2019
CVE-2019-14549 – EspoCRM 5.6.8	August 2019
CVE-2019-14559 – EspoCRM 5.6.8	August 2019
CVE-2019-15062 – Dolibarr 11.0.0-alpha	August 2019