Atit Gaonkar

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Summary

A highly organized computer science graduate student with strong background in information and application security. Certified Ethical Hacker with firsthand experience developing and testing binaries, web applications and network devices. Excels as both individual contributor and in teamwork settings, by delivering tasks on-time and to specification.

Education

Master of Science in Computer Science - Arizona State University, Tempe — Aug 2019 - May 2021
Courses: Software Security, Applied Cryptography, Computer and Network Forensics — 3.78 / 4.0 GPA

Bachelor of Technology in Computer Science and Engineering — May 2018
Vellore Institute of Technology, Chennai — 8.98 / 10.0 GPA

Technical Skills

Skillset: Python scripting, binary analysis, application security, traffic & vulnerability management, web security
Language: Python, JavaScript, HTML, CSS, PHP and SQL
Software: gdb, ghidra, Wireshark, aircrack-ng, john-the-ripper, nmap, Power BI, TIBCO Spotfire
CTF: Participated in 6 attack-defense CTF (Capture-the-flag) events

Certification

Certified Ethical Hacker - EC Council (CEHv9): Number: ECC67924018402 Name: Atit Shivram Gaonkar — Oct 2017

Relevant Experience

Data Engineer (Intern) - Tulip Diagnostics, Goa, India — Jan 2019 - Apr 2019

- Analyzed internal processes, business operation and sales structure to create info-graphic dashboards using Microsoft's business intelligence tools, SSAS, SSIS, SSRS and TIBCO Spotfire.
- Automated the process of interpreting dashboards and forecasting projected revenue using VBA and SQL. Redesigned reporting system resulting in increased efficiency of 81.25%, hence reducing the time spent on month-end analysis.

Information Security Assistant (Intern) - Tulip Diagnostics, Goa, India — Jan 2019 - Apr 2019

- Worked Closely with Database Administrators and Network Manager to establish security guidelines and practices.
- Executed regular network evaluation and vulnerability scans. Significantly improved security processes.

Academic Projects

The Hungry Customer – Restaurant Recommender [@Arizona State University] [*Current] — Spring 2020

- For all the foodies, who love to try out different food items, this platform provides various restaurant recommendation and based on state wise trending food items. Analyzing sentiments of user reviews to better understand the quality of food and recommend best restaurants based on heuristic measures.

BinExploit - Binary Exploitation & Reverse Engineering [@Arizona State University] — Fall 2019

- Reverse engineered ELF binaries to exploit the underlying vulnerability. Efficiently patched and synchronized the binaries with the server. Utilized various open source tools for shellcodes to deconstruct and exploit the binaries.
- Used gdb, gef, ghidra to reverse engineer the binaries. Implemented defense in depth strategy while patching.

PCAP Splitter - Network traffic file splitter [@Arizona State University] — Fall 2019

- Designed a CTF network utility capable of splitting a huge PCAP (network traffic) file into smaller separate TCP or UDP connections based on source and destination IP and port, along with user defined inputs.
- Employed packet inspection scheme differentiating the content to understand the nature of the packet.

Multify - A virtual router [@Personal] — Spring 2018

- Devised a hotspot script to enable a Wi-Fi recipient (laptop/desktop) to simultaneously work as Wi-Fi host, hence acting as an intermediate router. Countered the issue of maximum user connection to a Wi-fi network.

Carry-o-Robot: Level-2 Autonomous Car - A secure delivery system [@Vellore Institute of Technology] — Spring 2018

- Implemented a secure level-2 autonomous car for Indian roads which detects traffic lights, road signals, obstacles and acts accordingly in a controlled environment system using Facial and Object Recognition System.
- Deployed both manual and automatic control. A secure live camera feed from the car to control station was achieved with a mere delay of 0.6 secs.