

Aditya Anand

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Experience (1.5+ years)

- **Curl Analytics (InfoSec Engineer)** [May'19 to Till Date]

At Curl Analytics, I am the part of the Infosec team that works closely with the DevOps division. I contribute in setting up the security of our company's infrastructure and have recently helped in establishing an entire new office space. I also overlook the secure development of our products, network etc.

Responsibilities:

- Setting up the security policies to follow the guidelines of the ISO-27K certification
- Established the entire Work-from-Home Infrastructure amidst the COVID-19 pandemic
- Working with the development team to enhance the secure coding practices.
- Worked with pfSense and integrating IPS & IDS solutions like Suricata, Snort, Bandwidth etc.
- Designed & developed the Security Operation Centre using ELK Stack with OSQuery.
- Have been creating our own control centre & monitoring dashboard using various open source tools.
- Set up automated deployment with Ansible scripts & Free IPA
- Setting up an internal file sharing system using SeaFile.
- Prepared for a pen-test of a blockchain application for a client that integrated it with a KYC solution.

- **Freelance (Bug Hunter)** [Jan'18 to May'19]

I started freelancing to gain as much experience as possible, before joining the IT industry. This gave me the idea of how to find bugs and then report them in a well documented form. It helped me grow as penetration tester.

Responsibilities:

- Took web app pen-test offers from clients to find vulnerabilities and prepared detailed reports for them.
- Presented them with the security issues they need to solve.
- I also took up private projects that was requirements from particular individuals solve their issues.
- Invited to various private bug-bounty programs.
- Reported critical bugs e.g. OTP bypass, Broken Login Authentication, Payment bypass etc.

- **Mozilla (Quality Assurance - Contributor)** [Dec'17 to Nov'18]

Have been working under the Mozilla India community, which takes care and oversees the quality of all the three versions of the Firefox browsers. (Standard Firefox, Firefox Dev Edition & Firefox Nightly).

Responsibilities:

- I did bug triaging & its verification looking for bugs that persists in the browser.
- We had a proper to and fro conversation with the clients using the Mozilla Firefox & help solve their issues.

Professional Achievement & Competencies

- **Google Startup Weekend**
I participated in my first year, where our team won the prize for the most innovative idea.
i) We created prosthetic arms & limbs using the 3D printing, helped to bring down the price more than 80%
ii) Introduced the idea of smart gloves, where one can command a robot using its motion
- **Prestigious Ranks at various Online Coding Platforms**
i) Currently I hold international rank #1 at [HackerRank](https://www.hackerrank.com) for both **Java & Bash Scripting**
ii) I have been at the top of the leader board of [HackerEarth](https://www.hackerearth.com) at CodeArena
- **Bugcrowd (Bug Bounty)**
i) Currently hold the rank 3349 with 100% accuracy while reporting bugs at the Bugcrowd platform.
ii) Reported 10+ vulnerabilities for companies like Western Union, SoundCloud, Atlassian etc.

Research Paper

- [Internet of Vehicles](#) (International Journal of Engineering & Technology, 25th July 2018)
i) We tried to create a POC of a smart vehicle, combined together with various sensors.
ii) Our aim was to provide the driver a better driving experience and a safe journey.

Projects

- Recon - [Firefox](#) & [Chrome](#) Web add-on
 - i) I coded the web add-on by myself using the Javascript, to enhance the ease of search.
 - ii) The add-on work on the feature, you can search any text that is selected on the web browser
 - iii) Search that word on the social networking sites, search engines, video sites, translate it etc.
- I have been working on several Raspberry Pi projects, creating one after the other
 - i) Alexa & Google Assistant on Pi -
 - Integrated Alexa & Google Voice Assistant on the raspberry pi module.
 - Using scripts and crontab I automated the whole process on boot up sequence.
 - ii) Pi-VPN -
 - Utilises the OpenVPN to encrypt the network traffic from the device
 - iii) Pi-Hole -
 - Ad-blocking service, blocks the whole ad traffic by blacklisting them increasing internet speed & security.
- Command Line Tools (for Unix)
 - i) [Crypt-it](#) - ([Github](#))
 - It is a command line tool designed to encrypt hash messages and decrypt them using API calls.
 - It can also identify the hashing technique that might have been used to hash the plaintext.

Certificates

- CEH (Certified Ethical Hacker) by EC-Council
- CHFI (Certified Hacking & Forensic Investigator) by EC-Council
- ECSA (EC-Council Certified Security Analyst) by EC-Council

Publication

- [Medium](#) (@aditya12anand)
 - i) I publish my work related to cyber security on Medium as blogs.
 - ii) Currently I have a viewership of 100k+ on a monthly basis.
- [Arka Kapi Magazine](#)
 - i) My article - [How I hacked into a college database](#), was published in the magazine.
 - ii) They are based out of Turkey, it was published in the English edition.
- [Pen Test Magazine](#)
 - i) My article - [Breaking Down : SHA-1 Algorithm](#) was published on their blogpost.

Educational Qualification

- Bachelor's of Technology (B.Tech.), Information Technology
CGPA : 7.0
SRM University, Kattankulathur, Chennai, 2015 - 2019

Technical Expertise

- **Networking:** OSI & TCP/IP Model, ARP, ICMP, UDP, TCP Windowing & Congestion control
Routing protocols - EIGRP, IGRP, OSPF, BGP, RIP, Static Route
Application protocols - HTTP, HTTPS, FTP, DNS, DHCP, SNMP, SMTP
- **Network Security:** Stateless & Stateful packet filter Firewall & VPNs
Forward & Reverse Proxy, Port security, DHCP snooping, ARP spoofing
DoS & DDoS attack types
- **Cyber-Security Tools:** BurpSuite, Metasploit Framework, Maltego, Nmap, Hydra & John the Ripper
Nikto, Dirbuster, Wfuzz, WpScan, WireShark, Searchsploit, ExploitDB.
- **Programming Language:** C, C++, Bash & Python Scripting