

Amar Lakshya

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‘A Chemical Computer computing on Digital Computers’

Projects & Contributions

LOGI'S CIRCLE OF SECURITY : github.com/amar-laksh/Logitech_pentest/blob/master/Report.pdf

- A full Penetration test conducted on Logitech's Circle camera.
- The test showed that the Logi Circle is well-secured.

FOS - MADE TO BE OPEN : github.com/amar-laksh/fos

- A Monolithic UNIX-like Kernel for the x86 and ARM (Raspberry Pi) platforms.
- ELF Parsing(with kernel parsing), PCI, Serial (ARM), Western Notes for PC Beeper and System Calls.

TRYINGTOKNOWYOUBETTER : github.com/amar-laksh/TryinToKnowYouBetter

- The Indian Election Commission's website leaks data that can be analysed to effectively locate all registered voters.

STUDY OF CAPTCHAS : amar-laksh.github.io/2017/03/16/CAPTCHAs-on-ceo-sites.html

- An extensive study of CAPTCHA systems present on The Election Commission Of India's websites across all the states in India.

CACHE PATCH (CORE), MOZILLA CONTRIBUTION : [git log | grep amar on codebase](https://git-log|grep-amar-on-codebase)

- Worked on patching cache entries that expire immediately in the Cache core of Mozilla codebase.
- Affects all Mozilla programs including Firefox and Thunderbird.

VITAE : github.com/amar-laksh/vitae

- An Esoteric, Interpreted python-built language built entirely with regular expressions.
- Designed to introduce non-technical people to programming.

REPLAYCER : addons.mozilla.org/en-US/firefox/addon/replaycer

- A fun Browser Add-on to replace content on the web that replaces live content like twitter feeds etc.

Work Experience

Sept 2018-Feb 2019

SYSTEMS ENGINEER (LEAD): Nymble Labs (Bangalore)

- Revamped the entire software architecture to produce reliable, clean OOP code.
- Implemented the next iteration of the product using C++ 14, ROS2 and Qt5.

Dec 2017-July 2018

SOFTWARE ENGINEER - INTERN: Nymble Labs (Bangalore)

- Designed a ROS2 based distributed software architecture of the system
- Wrote a Qt5 based display application for the on-board display.

July 2017-Sept 2017

JUNIOR DEVELOPER (LINUX) - INTERN: Apogee Tech Global Inc. (Bangalore)

- Designed a cross-platform architecture for the Internet Security Suite
- Implemented the application on Windows, Mac, & Linux using Electron, React and Redux

Publications & Certifications

Aug 2019

COMPTIA SECURITY+ CERTIFICATION : youracclaim.com/badges/3ed437c4-0623-4e26-bdc7-4b9c58fc8bab

- Earners of the CompTIA Security+ certification have the knowledge and skills necessary to perform core security functions required of any cybersecurity role.

Jan 2015

CROSSED & KNOTTED : amazon.in/Crossed-Knotted-Various-Authors/dp/8192997529

- Co-Author of Limca Book of Records winning - India's First Composite Novel - written in collaboration with 12 Authors.

Education & Skills

MSc. Cyber Security,

University Of Birmingham, UK

Sept 2019 - Sept 2020

2:1 Expected

Topics Covered:

- Cryptography and Data Analysis
- Operating Systems and Network Security
- Forensics and Malware Analysis
- Embedded Systems and Penetration Testing

BSc. Info. Technology,

St. Xavier's College, India

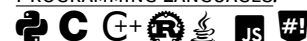
July 2014 - July 2017

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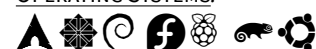
Topics Covered:

- Applied Mathematics
- C++ Programming
- Operating Systems
- Computer Graphics
- Artificial Intelligence
- Data Warehousing and Mining

PROGRAMMING LANGUAGES:



OPERATING SYSTEMS:



APPLICATIONS & FRAMEWORKS:



DATABASES:

