

# Amar Lakshya

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‘A Chemical Computer computing on Digital Computers’

## Projects & Contributions

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**FOS - MADE TO BE OPEN** : [github.com/amar-laksh/fos](https://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.
- Fully Functional Support for GPIO Pins (ARM) wrapped as Arduino-compatible functions.



**VITAE** : [github.com/amar-laksh/vitae](https://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](https://addons.mozilla.org/en-US/firefox/addon/replaycer)

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



**CACHE PATCH (CORE), MOZILLA CONTRIBUTION** : [git log | grep amar on codebase](#)

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



**FOCUS TV** : [github.com/amar-laksh/focustv](https://github.com/amar-laksh/focustv)

- An extremely responsive face detection system which automatically pauses Media(YouTube and VLC Media Player) when you aren't looking.



**TRYING TO KNOW YOU BETTER** : [github.com/amar-laksh/TryinToKnowYouBetter](https://github.com/amar-laksh/TryinToKnowYouBetter)

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

## Work Experience

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Sept 2018 - Present **SYSTEMS ENGINEER (LEAD)**: Nymble Labs (Bangalore)

- Revamping the entire software architecture to produce reliable, clean OOP code.
- Implementing 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
- Designed an extensible Flask-based Web REST API for third-party devices.
- Designed coding standards and setup guidelines.
- Wrote the initial iteration of the software architecture in C++ 14.
- 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
- Created the backend functionalities using Python, Bash, and Ruby.

## Publications & Certifications

- 2019 COMPTIA SECURITY+ CERTIFICATION: <https://www.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.
- 2015 CROSSED & KNOTTED: [amazon.in/Crossed-Knotted-Various-Authors/dp/8192997529](https://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.
- 2017 BEYOND GOOD AND EVIL: [amar-laksh.github.io/2017/06/17/beyond-good-and-evil.html](https://amar-laksh.github.io/2017/06/17/beyond-good-and-evil.html)
- A paper focusing on the futility of recognizing Good and Evil as deterministic forces in the world.

## Positions Of Responsibility

- 2014 - 2017 CLASS REPRESENTATIVE: St. Xaviers College, Mumbai - Autonomous
- Worked to organize events like seminars and workshops for the BSc. I.T. batch.
- 2015 PUBLIC RELATIONS VOLUNTEER - XENITH: St. Xaviers College, Mumbai - Autonomous
- Worked on coordinating and organizing of Public Relations at different colleges for the IT Department Festival.
- 2014 FOUNDING CORE MEMBER OF THE IT CLUB: St. Xaviers College, Mumbai - Autonomous
- Worked on designing and ideation of the IT Department Festival.

## Technology Skills Acquired

### PROGRAMMING LANGUAGES:



### OPERATING SYSTEMS & DISTRIBUTIONS:



### APPLICATIONS & FRAMEWORKS:



### DATABASES:



## Education

Msc. Cyber Security, - 2019-2020  
University Of Birmingham, Birmingham, UK  
BSc. I.T., 3.26/4.00 - 2014-2017  
St. Xaviers College, Mumbai - Autonomous  
xii<sup>th</sup>, 81.00% - 2013-2014  
St. Peters' College, Agra  
x<sup>th</sup>, 86.00% - 2011-2012  
St. Peters' College, Agra

## References

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