

# Amar Lakshya

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[amar-laksh.github.io](https://amar-laksh.github.io)

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‘A Chemical Computer computing on Digital Computers’

## Projects & Contributions

C/ASM

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.

Python

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.

JavaScript

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.

C++

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

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

Python/Rust

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.

Bash/Python

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.

## Publications

2015

CROSSED & KNOTTED : [amazon.in/Crossed-Knotted-Various-Authors/dp/8192997529](https://amazon.in/Crossed-Knotted-Various-Authors/dp/8192997529)

- Co-Author of India's First Composite Novel

2017

BEYOND GOOD AND EVIL : [amar-laksh.github.io/beyond-good-and-evil](https://amar-laksh.github.io/beyond-good-and-evil)

- A paper focusing on the futility of recognizing Good and Evil as deterministic forces in the world.

## Work Experience

Dec 2017 - Present

SOFTWARE ENGINEER (LEAD): Nymble Labs (Bangalore)

- Designed the software stack, software architecture and programmed the codebase using C++, Python and ROS2 for an Automated Cook.

July 2017 - Sept 2017

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

- Developed a complete, cross-platform React-based Anti-virus and Anti-malware suite.

## Education

**BSc. I.T., 3.26/4.00** - 2014-2017

St. Xavier's College, Mumbai - Autonomous

**xii<sup>th</sup>, 81.00%** - 2013-2014

St. Peter's College, Agra

**x<sup>th</sup>, 86.00%** - 2011-2012

St. Peter's College, Agra

## References

Ms. Lydia Fernandes

St. Xavier's College, Mumbai - Autonomous

Professor at St. Xavier's College

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