

Amar Lakshya

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

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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

- 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

- 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

- 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://gitlog.mozilla.org/grep/amar)

- 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

- 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

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

Work Experience

Dec 2017 - July 2018

SOFTWARE ENGINEER (LEAD) - 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 onboard 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

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.

2017

BEYOND GOOD AND EVIL : 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.

Education

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

St. Xaviers College, Mumbai - Autonomous

xiith, 81.00% - 2013-2014

St. Peters' College, Agra

xth, 86.00% - 2011-2012

St. Peters' College, Agra

References

Ms. Lydia Fernandes

St. Xaviers' College, Mumbai - Autonomous

Professor at St. Xaviers' College

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