

Amar Lakshya

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‘A Chemical Computer computing on Digital Computers’

Projects & Contributions



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.



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.
- Able to replace live content like twitter feeds etc.



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.



FocusTV : 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.



TryingToKnowYouBetter : github.com/amar-laksh/TryinToKnowYouBetter

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

Work Experience

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

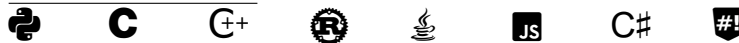
- 2019 CompTIA Security+ Certification : <https://www.youracclaim.com/badges/3ed437c4-0623-4e26-bdc7-4b9c58fc8bab>
- Earners of the CompTIA Security+ certification have the knowledge and skills necessary to perform core security functions required of any cybersecurity role.
- 2015 Crossed & Knotted : amazon.in/Crossed-Knotted-Various-Authors/dp/8192997529
- 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
- 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
xiith, 81.00% - 2013-2014
St. Peters' College, Agra
xth, 86.00% - 2011-2012
St. Peters' College, Agra

References

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