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*

- *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 functionalites 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/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.*
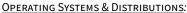
Technology Skills Acquired

PROGRAMMING LANGUAGES:

OPERATING SYSTEMS & DISTRIBUTIONS:

APPLICATIONS & FRAMEWORKS:

DATABASES:

Education

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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