

Tony Lijo Jose

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EDUCATION	◇ B-Tech in Computer Science & Engineering	2007 – 2011
	Government Engineering College Palakkad, Kerala.	

◇ **Higher Secondary Education in Science** **2003 – 2005**
 Immigration Jubilee Memorial Higher secondary school Kottiyoor, Kerala.

RESEARCH INTERESTS	Linux System programming,AVR/ARM Development,NoSQL databases, application development for Mac OSX and Linux ,development on Raspberry Pi.
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TECHNICAL SKILLS

- ◇ *Operating Systems:* GNU/Linux, Mac OSX.
- ◇ *Programming Languages:* C(proficient), C++, Objective C, Python(proficient).
- ◇ *Databases:* MySQL, Riak.
- ◇ *Tools:* RabbitMQ, HAProxy, Nginx.
- ◇ *Version Control:* Git, Subversion, Mercurial.
- ◇ *Cloud Platforms:* Amazon EC2, Amazon S3.
- ◇ *Specialities:* C , C++ , Python, Cloud Computing, Scalable design, Big Data, Commandline tools, NoSQL databases, Virtualization, API design, Web services, Automation & deployment, Desktop applications, Shell scripting, Userspace filesystems, Microframeworks, System integration, MicroControllers AVR, ARM.

WORK ◇ **K7 Computing, Chennai**
 EXPERIENCE **Development Engineer** **Nov 2012 – present**

Working as part of a team responsible for Developing Products Based on Cloud ,Hosting, and Security Domain

- K7Tracker

K7 Tracker is an invisible software security application that traces the location of missing laptops for recovery. It is a light weight application that will help you track and find your laptop if it ever gets stolen. K7 Tracker provides a method for mitigating this risk. This tracking system send, over the Internet, updates regarding the current location of the device to a remotely administered repository. If the device is lost or stolen, but maintains Internet connectivity and unmodified software, the tracking system can keep tabs on the current whereabouts of the device. This data could prove invaluable when the appropriate authorities attempt to recover the device

<http://k7tracker.com>

Role:

Development of Server, Linux and Mac Agents

StackIron

A platform that lets hosting providers setup a Cloud VPS/IaaS business in mere hours. Includes support for industry leading, hosting focused billing systems. StackIron is a highly scalable platform with VPS failover, management server high availability, support for multiple hypervisor technologies, etc.

<http://www.youtube.com/watch?v=yyT9DkHpnA4>

Role:

Development of strackiron Driver for scaleInfra

- **EggPlugg**

A personal cloud appliance/hardware that lets you access your data no matter where you are and also let you share and monitor your shares. What's best: It looks like a real egg! Personal cloud storage that let you keep your data with you and you don't have to spend more to store more. http://www.youtube.com/watch?v=JR40_AgsM2c

Role:

Configuring and Maintaining the Eggplugg device software and hardware

- **K7 Linux Antivirus**

A Linux Version of K7 antivirus was implemented. This antivirus could scan for malware in computer ,It also could update the latest malware database . This antivirus was used in the enterprise antivirus product to find the malwares in linux platform.

Role:

Integrating K7AV engine into linux with development of multiple components required for AV

- **Unified Thread Management**

A Product which could do intrusion detection and virus analysis. This looks like a packet router device which will help to find the intruders. It also scans the packets realtime with the help of AV signatures and finds if the packet is containing virus content!

Role: Research and Development

wrote Kernel drivers to sniff packets from kernel space , wrote char drivers to update signatures from userspace to kernel space , wrote char drivers to control the scanning from userspace.

- ◇ **Inxs Technologies, Chennai**

- Software Engineer**

Jan 2012 – Nov 2012

Actively involved in the design and development of a High performance Trading platforms, Was a part of marketsimplifieds platform team which was responsible for integrating various brokers into marketsimplified's single platform and protocol.I was actively involved in developing an Analytics product which could derive a score for a stock based on its technical strength

PERSONAL
PROJECTS

Design of a toy Python virtual machine in C

github:<https://github.com/tonylijo/micropvm>

Designed a small task switcher for arm Lpc2148 processor

<http://blog.tonylijo.in/2011/11/taskswitchinginmsp430.html>

<https://github.com/tonylijo/MSP430TASKSWITCHER>

<https://github.com/tonylijo/armos>

Lispy A Lisp implementation in the JVM language Groovy.

Peter Norvig had written a tiny Lisp interpreter in Python. I rewrote the lisp interpreter in Groovy

<https://github.com/tonylijo/lispy>

Design of a FUSE version of ISO file system module.

<https://github.com/tonylijo/fuseversionofisofilesystem>

Design of ext2 file system simulator.

<https://github.com/tonylijo/ext2filesystem>

Design of an obstacle avoiding robot.

<https://github.com/tonylijo/Obstrucle>

Design of a Wireless LED dot matrix display.

<https://github.com/tonylijo/leddotmatrixdisplay>

A simple data compression tool Implemented a simple data compression tool in Python based on huffman coding algorithm.

<https://github.com/tonylijo/huffmancoding>

Design of a Hello world Bootloader.

Linux Kernel parallel port driver

- AWARDS & HONOURS
- ◇ **“Best Project”**, *Computer Science, Government Engineering College Sreekrishnapuram. 2012*
 - ◇ **“Founder of Foss Cell”**, *I was the founder of Foss Cell GEC Sreekrishnapuram.*
 - ◇ **“Year Representative”**, *Was Elected as Year representative in College union election.*

REFERENCE

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