U. Srikant Patnaik

EMPLOYMENT DETAILS

Jun 2017 – Prsent
Principle Engineer, Isla,
Aurionpro, Navi Mumbai

Feb 2011 – May 2017
Software Manager, FOSSEE Project,
Indian Institute of Technology, Bombay

August 2009 – Nov 2010
Faculty in Electronics Technology,
Loyola Academy, Hyderabad

MAY 2008 – JUN 2009
Freelancer Linux trainer and consultant,
Part time, Indore & Hyderabad

PROJECTS

8051 programmer for Linux *(Oct 2008 - Feb 2013)*

A first free tool in Linux to write hex files on Atmel 8051 ISP microcontrollers using PC's parallel port. Written in C, it was very popular till USB based programmers stormed the market.
https://sourceforge.net/projects/linux-isp-89sxx

Linux on Aakash Android tablet (Govt. of India project) *(Jun 2011 - Mar 2013)*

An affordable tablet by MHRD to enhance education in rural areas.
Customized and ported Linux desktop as secondary OS on 7" ARM tablet. It required device driver modifications, hardware debugging, and a touch optimized lightweight distribution. The pilot project has been tested with 1,00,000 devices.
https://aakashlabs.org/gnu
https://github.com/androportal/linux-on-aakash

Programming IDE on Android *(May 2012 - Aug 2013)*

A programming environment with C, Cpp, Python and Scilab on Aakash Android tablet.
Developed a tiny customized Linux chroot environment to bootstrap packages. A webapp was used for the frontend. The pilot project has been tested with around 50,000 students.
https://aakashlabs.org/ac/project/1
https://github.com/androportal/installer

FOSSEE Laptop *(Feb 2013 - Aug 2015)*

An affordable Linux based laptop for students with popular scientific and educational packages.
The development started with reverse engineering a tv setup-box Kernel source code. The display and audio drivers were patched to bring the basic linux running.
The pilot project has been tested with 1,000 devices.
http://laptop.fossee.in
https://github.com/FOSSEE/FOSSEE-netbook-kernel-source

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SKILLED IN

System & Networks
Linux kernel & device driver customizations, bootloaders, efi, lxc, iptables, dns and web servers, load balancers, reverse-proxy, NAT, bridges, ssl certs, custom distros

Web, Cloud & DevOps
(openstack, aws, docker swarm, kubernetes)[a], python web frameworks, ansible, jenkins, puppet

Programming
c, shell scripting, python, perl, awk, sed (in principle, any language with 'if, else, for, while' is fine)

Hardware & IoT
serial debugging, microcontrollers, android & Linux SBCs, IoT & cloud publishing, server setup

LEARNING

ACADEMICS	M.Sc(electronics)
PAST TRAININGS	Linux system administrator,
	Network administrator,
	Linux kernel and device drivers,
	Diploma electronics services,
	Advanced embedded systems
IN PROGRESS	OpenStack, amazon web services,
	container orchestration,
	network & IT security

ROLE AT FOSSEE, IIT BOMBAY

Development, team management, deciding policies, tracking code & documentation.
Delivered talks & workshops at GNUnify, FOSS.IN, icfoss, SciPy India and other events.

INTERESTS

Film editing, audio mixing, chess, world cinema, cartoons, indian classical, documentaries, table tennis, comics, cricket.

Ocassionally blog at https://gnu-linux.org
Videos https://www.youtube.com/c/SrikantPatnaik

REFERENCES

Please contact me for references and other details.

This *cv* was generated on 20 Mar 2017. Check the latest at https://github.com/srikantpatnaik/dot-files

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[a]in progress