Aswin Babu Karuvally

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INTRODUCTION

Free Software enthusiast, developer and trainer, deeply passionate about Network Programming, Operating Systems and IoT. Currently pursuing Masters in Computer Applications

EDUCATION

College of Engineering Trivandrum, Kerala, India

Master of Computer Applications

Aug 2016 -

• CGPA: 7.7 / 10

• CGPA: 7.9 / 10

Naipunnya School of Management, Kerala, India

■ BSc. Computer Science

Jun 2013 – May 2016

LINKS

• Github: https://github.com/karuvally

• Gitlab: https://gitlab.com/karuvally

LinkedIn: https://linkedin.com/in/karuvally

EXPERIENCE

Consultant, DAMAC Solutions, Trivandrum, Kerala, India

Aug 2018 – Nov 2018

Tasked with evaluating and deploying cloud backup solution

Developer, Project Lifeboat, Kerala, India

Aug 2018 - Sep 2018

- Developed scripts for removing duplicates from distress call data
- Helped in deploying and maintaining servers
- Coordinated the development team

Developer and Admin, KnowledgeBase @ CET, Trivandrum, Kerala, India

Jan 2018 - Nov 2018

- Deployed easy to use web file manager for storing academic resources
- Tasked with maintaining and administering the system

Trainer, FestFlick, Trivandrum, Kerala, India

Sep 2017 – Nov 2018

Served as resouce person for IoT, Python and Linux, Git and Image Processing workshops

Student Faculty, IoT Lab, CET, Trivandrum, Kerala, India

Aug 2017 – Nov 2018

Tasked with conducting workshops on Linux, Python and IoT devices such as Raspberry Pi

Homepage maintainer, Free Software Users Group, Trivandrum, Kerala, India

Jul 2017 – Jan 2018

maintained http://tvm.fsug.in

Developer and Admin, Dextro Systems, Alleppey, Kerala, India

Dec 2015 - Jan 2017

- Developer web applications using Python and Bottle
- Deployed and managed projects on PaaS (OpenShift) instances

PROGRAMMING

Python 2 and 3

• Extensively used Python for network programming, system scripting, automation, web development, IoT, image processing, machine learning and web scraping

Shell Scripting

- Used BASH as primary language before switching to Python. Developed tools to automate everyday problems such as script for automatically reconnecting dropped dialup connection
- C
 - Used C to convert previously written scripts in Python to increase performance and decrease memory footprint

PHP

• Developed a number of web applications that used PHP to generate dynamic content.

HTML5 and CSS3

Developed a number of web frontends for web applications and for static websites.

■ L^AT_EXand Beamer

• Used LATEX as primary typesetting tool and also for developing slideshows.

SQL

• Used SQL for storing and retrieveing data from webapps.

TOOLS AND TECHNOLOGIES

Linux

- Using Linux as the primary Operating System for the past 13 years.
- Extensively tweaked the OS to match personal and client needs
- Deployed and maintained Linux Systems including web, file and backup servers
- Trained students on Linux basics, shell and managing IoT devices running Linux

Git

- · Experienced with Git and Gitflow
- Worked on a number of personal and third party projects employing Git
- Trained large number of students on Git

Internet of Things

- Experienced with Rasbperry Pi and Arduino
- Used Raspberry Pi for several projects including surveillance
- Trained students on IoT both inside and outside CET

Virtualization

- Experienced with KVM, VirtualBox, Hyper-V, VMWare and Docker
- Extensively used virtual machines for testing and deploying projects

■ Image Processing

- Implemented a number of projects in OpenCV including one to differentiate book copies
- · Trained students in Image Processing and OpenCV

Numpy and Pandas

- Used Numpy for variety of Image Processing and Machine Learning Projects
- Used Pandas for dealing with really large datasets

scikit-learn

· Developed demand and car price prediction system

Web Scraping

- Experienced with Selenium, Scrapy and BeautifulSoup
- Developed scraping script for Servntire using Selenium

Mongo DB

Developed an experimental web app for handling data from large number of distress calls

Cloud Computing

- Deployed a number of projects onto OpenShift and Digital Ocean
- Used Google Cloud for processing large datasets for ML project

pdb

• Used pdb for extensively debugging Python applications

Bottle

· Uses bottle as the primary framework for web development

NMap

• Used NMap for monitoring and finding faults with network

PUBLICATIONS CONFERENCES

[1] Aswin Babu Karuvally, Basith Hameem, Ann Jerin Sundar and John Prakash Joseph "Enhancing Performance and Reliability of Network File System," in *Proceedings of the International Conference for Control Communication and Computing 2018*, Trivandrum India, Jul 2018.

PROJECTS	 NetDog - dead simple configuration management 	2018
	 Scrapy Project - scrap server info from Hurricane BGP toolkit 	2018
	■ Lightup - reaplcement for Intel's xbacklight utility	2017
	■ Buzzer - Zero cost alternative for quiz buzzers	2017
	■ Bak - Fast, time-stamped archival or present working directory	2016
	■ SaveMyCode - Automated archival of directories upon file change	2015
	■ Weather-Get - Command line application to quickly retrieve and display weather	2014
	■ Duplex - Easy double sided printing on normal printers	2012
	■ Modem Reset - Auto reset and reconnect dialup connection upon failure	2011
INTERESTS	GNU\Linux • Operating Systems • Network Programming • UNIX Philosphy • Shell Internet of Things • Vintage Computing • Virtualization • High Performance Computing	
HOBBIES	Driving • Reading • Collecting vintage computers • Blogging	
VOLUNTEERING	■ Debutsav 2018, CUSAT, Kochi, Kerala	
	■ Hasgeek Fifth Elephant 2018, Bangalore	
	■ Hasgeek Anthill 2018, Bangalore	
	■ Raspberry Jam Trivandrum 2018, Trivandrum	
	 Debian Stretch Release Party and Install Fest 2017, Cherthala 	
	 Debian Stretch Release Party and Install Fest 2017, Kollam 	
	■ Linux installation fest 2017, FSUG-TVM, Trivandrum	
	■ Free Software User's Group Trivandrum	
	■ Free Software Community of India	
AWARDS & ACHIEVEMENTS	■ First Prize, Enigma - Linux Talent Hunt, Nakshatra 2018, NIT Calicut	2018
	■ First Prize, Enigma - Linux Talent Hunt, Nakshatra 2017, NIT Calicut	2017
	■ Best Paper Award for "Replacing GUI with Shell", Daksha Yantra, IHRD Attingal	2017

[Last updated on 2018-11-21]

2016

2016

■ Best CS Student Award, Naipunnya School of Management

■ Best Performer Award, Naipunnya School of Management