Aswin Babu Karuvally

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EDUCATION College of Engineering Trivandrum, Kerala, India

Master of Computer Applications

Aug 2016 – Jun 2019

• 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 developement 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.

■ LATEXand 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 Scrapy Project - scrap server info from Hurricane BGP toolkit 	2018 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
■ Best CS Student Award, Naipunnya School of Management	2016
■ Best Performer Award, Naipunnya School of Management	2016

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