Aswin Babu Karuvally

Karuvally House, West of Velinilam Temple, Muhamma P.O, Alappuzha, 688525 aswinbabuk@gmail.com • +91 999 505 4663 • http://karuvally.github.io

INTRODUCTION

Developer, trainer and free software enthusiast. Currently working as CAD Engineer at XILINX

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

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

■ **Blog**: https://karuvally.github.io

EXPERIENCE

CAD Engineer, XILINX, Hyderabad, India

Jul 2019 - Present

- Developed tool to report Engineers not getting access to their license share
 - Improved job runtime for engineers
 - Reduced turnaround time for Infra team
- Developed AutoKill system for non-compliant jobs in compute cluster
 - Improved license availability for critical jobs
- Conducted company-wide training on ICM GDP Revision Control System
 - Empowered users to fix basic issues themselves

CAD Engineer Intern, XILINX, Hyderabad, India

Feb 2019 - Jul 2019

- Enhanced Compute cluster status check tool
 - Enabled better statistics for compute cluster
 - Allowed easier management, maintenance of cluster

Freelancing, Kerala, India

Dec 2015 - Nov 2018

- Worked as freelance developer, admin, manager
- Worked with institutions to train students on GNU/Linux, Git, IoT and Python

PROGRAMMING

Python

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

Shell Scripting

• Developed tools to automate everyday problems such as script for automatically reconnecting dropped dialup connection. At XILINX, ported CShell scripts to Python

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.

SQI

Used MariaDB as backend database for web apps and in house automation tools

TOOLS AND TECHNOLOGIES

GNU/Linux

- Using Linux as the primary Operating System since 2005.
- Deployed and maintained Linux Systems including web, file and backup servers

• Trained students on Linux basics, shell and managing IoT devices running Linux

Version Control

- · Experienced with Git and Gitflow, Perforce Helix Core, ICManage GDP
- Served as resource person for Git workshops

■ 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

■ 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 with MongoDB backend for handling data from large number of distress calls during Kerala Floods - 2018

pdb

• Used pdb for extensively debugging Python applications

Django and Bottle

· Used Django and bottle for webapp development

• **Deploy It** - simple to use deployer for Python apps

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.

	 NetDog - dead simple configuration management 	2018
	 Lightup - reaplcement for Intel's xbacklight utility 	2017
	■ Modem Reset - Auto reset and reconnect dialup connection upon failure	2011
INTERESTS	UNIX • Free Software • Network Programming • Vintage Computing • Virtualization	
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

[Last updated on 2021-09-09]

2019