

Aswin Babu Karuvally

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EDUCATION

College of Engineering Trivandrum, Kerala, India

- Master of Computer Applications
- CGPA: 7.7 / 10

Aug 2016 –

Naipunnya School of Management, Kerala, India

- BSc. Computer Science
- CGPA: 7.9 / 10

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 resource 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.

TOOLS AND TECHNOLOGIES

- **L^AT_EX and Beamer**
 - Used L^AT_EX as primary typesetting tool and also for developing slideshows.
- **SQL**
 - Used SQL for storing and retrieveing data from webapps.
- **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 Raspberry 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 <i>Proceedings of the International Conference for Control Communication and Computing 2018</i> , Trivandrum India, Jul 2018.
PROJECTS	<ul style="list-style-type: none"> ▪ NetDog - dead simple configuration management 2018 ▪ Scrapy Project - scrap server info from Hurricane BGP toolkit 2018 ▪ Lightup - reaplacement 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 Philosophy • Shell Internet of Things • Vintage Computing • Virtualization • High Performance Computing
HOBBIES	Driving • Reading • Collecting vintage computers • Blogging
VOLUNTEERING	<ul style="list-style-type: none"> ▪ 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	<ul style="list-style-type: none"> ▪ 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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