

# Aswin Babu Karuvally

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## EDUCATION

### College of Engineering Trivandrum, Kerala, India

- Master of Computer Applications
- CGPA: 7.7 / 10

Aug 2016 – Jun 2019

### 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 – Oct 2018

- Tasked with evaluating and deploying cloud backup solution

### Python developer, Servntire, Trivandrum, Kerala, India

Aug 2018 – Sep 2018

- Developed web scraping script using Python and Selenium for an ongoing project

### 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 – Oct 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 – Oct 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 – Oct 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<sup>A</sup>T<sub>E</sub>X and Beamer**
  - Used L<sup>A</sup>T<sub>E</sub>X 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 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 *Proceedings of the International Conference for Control Communication and Computing 2018*, Trivandrum India, Jul 2018.

**PROJECTS**

- **NetDog** - dead simple configuration management 2018
- **Lightup** - replacement for Inte’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
- **SaveMyCode** - Command line application to quickly retrieve and display weather 2014

**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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