

#### LEAD DEVOPS ENGINEER · ELECTRONICS EXPER

Phoenix, AZ - 85225 USA · Bengaluru, KA - 560037 India

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"I like to build stuff."

## **Summary**

Akash Murthy has a Bachelor's Degree in Computer Science from PES University, one of the premier institutes in Bangalore, with distinction. He has more than 3 years of experience working with IT products and services organizations. He is proficient in Cloud Computing, Software Defined Networks, DevOps tools, Security practices, Containerization technologies, and Linux internals. He has worked with VMware's virtualization stack including NSX, vSphere, and Tanzu Kubernetes Grid as well as Nvidia's CUDA libraries, Gitlab operations, open-source tools, and databases.

He has mentored, judged, and been awarded for being part of several hackathons, and he has applied for a patent related to depth mapping. He is a recipient of the Rasphtrapati award, given by the President of India for his services as a Scout. He is self-motivated, runs websites, and automation services on servers at his home. A home lab where he tries new DevOps practices and open-source software. He is also academically inclined, having published a paper with the Springer Journal on measuring and forecasting electrical usage metrics at homes and industrial settings.

Business Skills: Automation Expertise, Service Management and Governance, Adherence to SLAs, MIS reporting on KRIs & KPIs, Vendor Evaluation, Negotiations and Management, Planning, Analytics, Metrics, and Measurement.

Professional Skills: Strong verbal and written communication deftness; Leadership, Adaptability and Continuous Learning, Ability to manage multiple projects and personalities.

## Work Experience

#### MYn App - NxtGen Datacenter and Cloud Technologies | Multi-verse Technologies Pvt. Ltd.

Bengaluru, India

LEAD DEVOPS ENGINEER Jun. 2023 - Present

- Proven ability to lead and mentor teams, collaborate with stakeholders, and **troubleshoot** technical issues.
- Technical **product owner** of MYmail & Speedcloud, developing product line strategies and handling client engagements.
- Provide technical leadership and guidance through coaching and mentoring, with IT disaster recovery and business continuity planning.
- Automate manual tasks for code and data development, and deployment through integration of IT infrastructure across different technologies.
- Design, implement, and manage scalable and secure infrastructures with ITSM practices based on ITIL.
- Train departments on reusable tools and patterns, lead teams to foster vendor relations, building high performance teams and nurturing talent.

**DEVOPS ENGINEER** Jan. 2022 - Jun. 2023

- Extensive understanding of open-source technologies and stacks, network and infrastructure architecture.
- Saved \$15,600 yearly by migrating entire team from Atlassian based products to self hosted alternatives like Gitlab, Trilium and FileRun.
- Optimised Cloudflare enterprise account spends saving \$44,700 annually, and supported team with Hashicorp products like Terraform & Vault.
- Configured FFMPEG environment with Nvidia CUDA & NVENC support for h/w transcoding, saving \$9000 monthly against AWS Elastic Transcoder.
- Adept at setting up webservers and load balancers like Nginx, HA Proxy and VMware NSX, and Fortinet products including SIEM, SORE, and Mail. Created automation scripts using Ansible. CI/CD pipelines on Gitlab with management of JavaScript (Node.is) projects clustered using PM2.
- Aided with efficient use of infrastructure, encouraged the use of **DevOps practices** among developers, and setup monitoring to support alerts.
- Experience with **Docker**, Docker Swarm, **Kubernetes**, **S3** compatible object stores like Ceph, Observability tools like **Grafana**, and Prometheus.
- Familiar with public and private cloud providers like AWS, GCP, Azure, VMware, OpenSUSE, Redhat & OpenStack.

#### SOFTWARE DEVELOPMENT ENGINEER

Jul. 2022 - Dec. 2022

- Made advancements in ride hailing as well as onboarding activities at MYn.
- Contributions to projects across **Python** and Node.js **backend** microservices as well as familiarity with **frontend** languages.
- In-depth understanding of the web development process, worked with databases like MariaDB / MySQL, PostgreSQL, Redis and MongoDB.

**DEVOPS ENGINEER INTERN** May. 2021 - Dec. 2021

- Worked with Client MYn (Multi-verse Technologies Pvt. Ltd.) on bringing several services online.
- Enabled the use of an open source IAM and SSO solution known as Keycloak for production with Java.
- Worked in a team of two to develop and deploy a Linux-based MySQL Galera cluster.
- Responsible for stress-testing Linux based systems primarily through the CLI with tools like ApacheBench and inbuilt Unix tools.
- Deployed and configured a HA Proxy cluster with VRRP (keepalived). This system managed all API traffic for NxtGen's cloud infrastructure.

**Plicly** Bengaluru, India

LEAD HARDWARE ENGINEER

SUBJECT MATTER EXPERT

Apr. 2020 - Jan. 2022

• Hardware prototyping and design for posture correction systems.

- Employing time of flight ranging and depth mapping, patent applied with PCT granted.

#### PES University | PESU I/O

Bengaluru, India

Jan. 2020 - May. 2020

- Formulated course material for the course **Electronics** Prototyping.
- Mentored a class of 40 students, successfully headed all group discussions with relevant assignments and projects.

### **Honors & Awards**

2020	Winner, Kalpana Hackathon	Bengaluru, India
2020	Winner, SharkTank E-Summit	Bengaluru, India
2020	2nd Place, inGenius Hackathon	Bengaluru, india
2019	Finalist, Kalpana Hackathon	Bengaluru, India
2019	Finalist, Kludge Make-a-thon	Bengaluru, India
2016	Winner, HackerEarth Codefest	Bengaluru, India
2015	<b>Recognition</b> , Bharat Scouts & Guides - Rashtrapati Award by the President of India	India
2010	Diploma, (PRO) SHO-Dan SHITO-RYU KARATE-DO	Bengaluru, India

### **Presentation**

### 3rd INTERNATIONAL CONFERENCE ON EMERGING TECHNOLOGIES IN DATA MINING AND **INFORMATION SECURITY (IEMIS 2022)**

West Bengal, India

PRESENTER FOR < ENERGY MONITORING WITH CONSUMPTION TREND ANALYSIS AND POWER SIGNATURE INTERPRETATION>

Feb. 2022

- · Introduced the method of collecting electrical usage metrics and pushing data points to a time series database.
- Introduced how to detect appliances in power wave forms with linear regression.
- Introduced forecasting data with SARIMA, SARIMAX and TBATS models.

**PESU I/O 2019** Bengaluru, India

Presenter for <Machine Intelligence and Data Science: Programming with R>

Introduced Exploratory Data Analysis and Hypothesis Testing with R.

Dec. 2019

## Writing

Hi! I'm Akash! Self Hosted Page

FOUNDER & WRITER Aug. 2022 - PRESENT

• Thoughts, stories and ideas on technology I find cool!

#### Energy Monitoring with Consumption Trend Analysis and Power Signature Interpretation

Springer Sep. 2022

- Part of Advances in Intelligent Systems and Computing book series (AISC, volume 1348)
- Indexed with Scopus Database and published with Springer Link Journal.
- Presented at IEMIS 2022.

## **Program Committees**

Mentor & Judge, in Genius Hackathon

Bengaluru, India

2020 Technical Lead, Incubator Bengaluru, India

### **Education**

# **PES University**

Bengaluru, India

B.Tech. In Computer Science and Engineering

Aug. 2018 - May. 2022

- Awarded MRD Scholarship and Prof. CNR Rao Scholarship for academic performance. Graduated with a CGPA of 8.86 on a 10 point scale.
- Advanced specialisation in Machine Intelligence & Data Science.

Bengaluru, India

**Ekya Schools** 

Achieved a final score of 89%.

GRADE 12 | SENIOR YEAR

Jun 2016 - Mar 2018

# Extracurricular Activity \_\_\_\_\_

#### **Vegavath Racing Division**

Bengaluru, India

TECHNICAL LEAD (TRANSMISSION & ELECTRONICS) / DRIVER

Nov. 2018 - Aug. 2022

- The official formula racing team of PES University Electronic City Campus.
- · Focused on designing, fabrication and testing of race cars.
- · Represented the college at SAE National and International Automotive competitions, and other automotive competitions.