

# **How to become a Highly Paid Global Engineer?**

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## Achievements of Indian Engineers at Global Level ?

- Indian IT professionals are very famous for being the building blocks and growth engine of Tech Companies in the western world,
- All the biggies like Apple, Google, Meta, Netflix etc. are just few most popular and innovative tech companies among thousands of other tech companies where Indian Engineers proved their worth.

## Great News and Opportunities for Future Engineers ?

- India is in great position regarding the tech opportunities due to the slowdown of western economies, high inflation and many other international challenges like wars etc.,
- Most of the product companies already started investing heavily in India and creating their global development centers due to the availability of large pool of potential talent at lower prices comparative to the western settings.

## Bummer, the Challenges ?

- But this also intensified the cut throat competition among youth as well due to big educated population in India,
- Companies want to hire the folks who are multi-skilled, independent and go-getter well versed in modern methodologies and culture like DevSecOps.

## The Serious Blockers ?

“

**As many as 97% of graduating engineers want  
jobs either in software or core engineering.**

**But, only 3% have suitable skills to be employed  
in software or product market and  
only 7% can handle core engineering tasks.**

”

# EDUCATED, BUT UNEMPLOYABLE

Education in India is expected to touch **\$225 billion** by 2025

Around **2 million** graduates are unemployed in India

Another half a million post graduates are looking for work

Just **3.8%** of engineers have required skills, another study found

WEF says **1 in 4** management professionals, **1 in 5** engineers and **1 in 10** graduates are employable

Unemployment remains over **7% in India**

Youth unemployment is **3.6%** at primary level, **8%** at graduate level and **9.3%** at post-grad

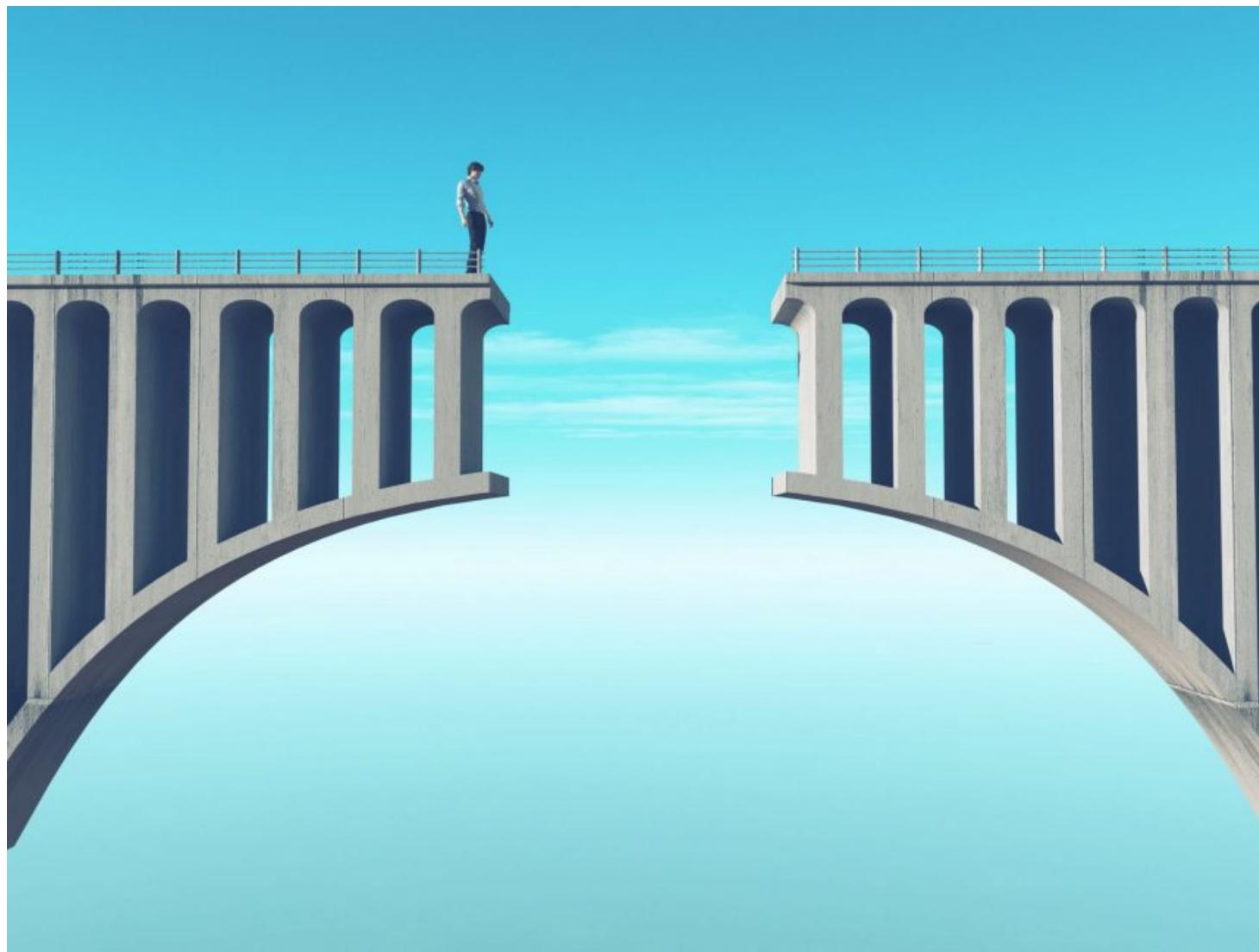
CSDS survey found **48%** of youth said unemployment is India's biggest issue



**“ UNEMPLOYABILITY ”**

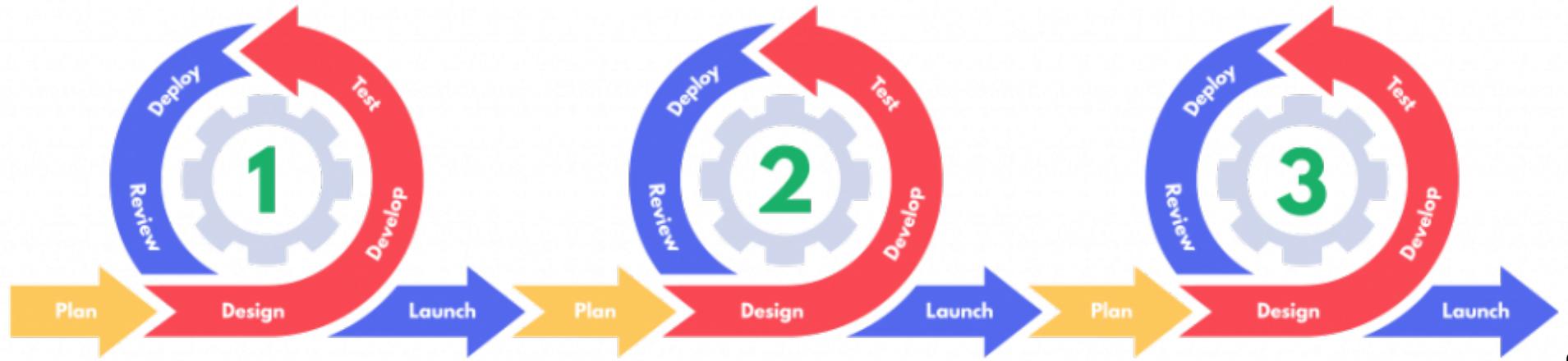
A BIGGER PROBLEM THAN UNEMPLOYMENT

# Are Education and Industry on the Same Page?



Where is the Gap ?

# AGILE DEVELOPMENT





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## Hard Skills

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Refer to teachable skills or **job-specific abilities** that can be quantified or measured.

## Soft Skills

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Refer to an individual's **social ability** and how they relate to and interact with other people.

# Soft Skills

Abilities related to how you work and interact with others



Management & Leadership



Critical Thinking



Design Thinking & Creativity



Problem-Solving



Innovation & Disruption

# Hard Skills

Measurable job-specific skills and technical knowledge



Artificial Intelligence



Analytics & Data Science



Machine Learning



Digital Marketing



Market Research & Consumer Insights

## Who we are?

- Group of Internationally Seasoned Professionals from Business and IT Industry,
- Passionate about making this world more sustainable through cutting edge technologies,
- Looking forward to bridge the gaps at the grassroot levels,

**“IF YOUR PLAN IS  
FOR 1 YEAR, PLANT RICE.  
FOR 10 YEARS, PLANT TREES.  
FOR 100 YEARS, EDUCATE CHILDREN.”  
CONFUCIUS**

- Working on harnessing the power of Free Open Source Software to create some highly innovative Products and Platforms.

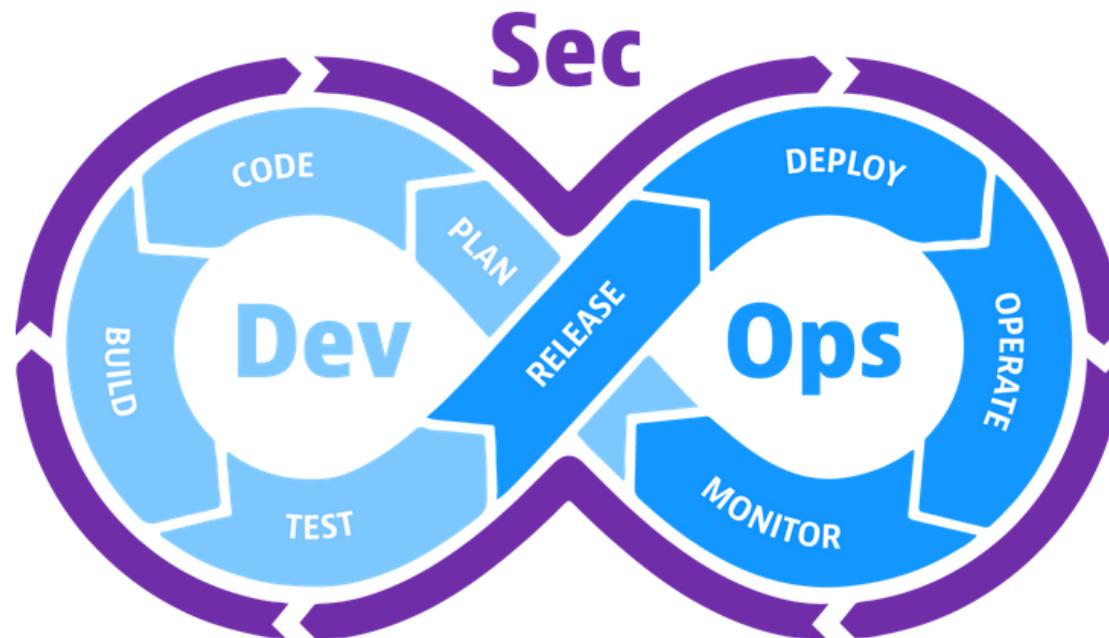
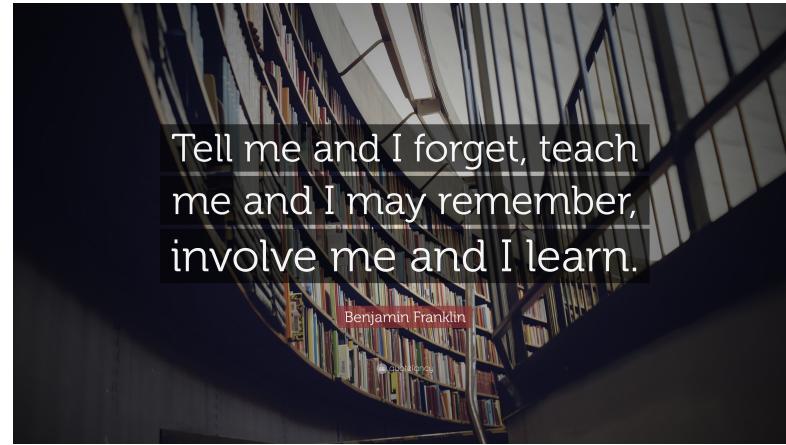
# The Education and Industry Gap Solution ?



- CODII Tantra Workshops designed for Graduated/Final/Pre-Final Students or Any Budding Professional looking forward to up-skill at International Levels for multi-fold growth and amazing career opportunities in the fields of C(I)O(u)D Computing, I(oT) and (A)I,
- Free Libre Open Source Software revolutionized the field of IT many decades ago,
- Hadn't it been the power of FLOSS driving the IT Industry, there won't be any Apple, Google, Meta, Netflix, Nvidia etc. along with thousands of enterprise and startup companies,
- Without FLOSS there won't be any Cloud, without Cloud there won't be any IoT, AI as well.

## The Workshops structure at a Glace

- We are offering 40 hrs each kind of Hands on Workshops to kick start and jet off your career in, now absolutely in demand by IT industry hiring for **DevSecOps, SRE, CloudNative Engg, Platform Engg, Engg Effectiveness** etc. roles,
- The workshops are very intricately designed to turn every trainee into an Nx techie, a very popular term in the modern IT industry, playing the role of N number of skilled professionals,
- From very first day, the participants will be inducted into a workflow like working in products startups,
- Every participant is going to wear multiple hats playing different roles as part of an assigned team,
- All the teams going to develop their own tools gradually to manage and automate their respective team operations using the FLOSS technologies getting covered during the workshop,



- They'll directly pushed into the hands-on aspects and will be able to connect their theoretical aspects of some vital subjects like Embedded Systems, Operating Systems, Distributed Systems, Programming Languages, Security, Software Development Life Cycle etc. with the practical hands on aspects of day to day professional work,
- The workshops are not limited to only cutting edge technical grooming but the participants will go through various essential soft skills value addition sessions like professional networking, interview skills, time management, entrepreneurship basics, spawning their own startups , higher studies in foreign countries etc. as well.

## Cloud Native Starter Track

- Day 1. Intro to Modern Cloud Computing, GNU/Linux Hands on
- Day 2. GNU/Linux Servers Automation
- Day 3. Automation Tooling
- Day 4. Virtualization and Docker Containers
- Day 5. Push Mode Config Management
- Day 6. Acceptance Testing and Status Page

Project: Create and configure Cloud Env on your Laptop. Combine everything learnt to gradually create automation utilities/tools which could create and manage quick setup of a fleet of servers on you laptop only.

## IoT Starter Track

- Day 1. Intro to IoT and Edge Computing
- Day 2. RPI Pico board interfacing with external world
- Day 3. RPI Pico board networking and web programming
- Day 4. IoT programming with Raspberry Pi 5
- Day 5. IoT server design and programming with Raspberry Pi 5
- Day 6. Miscellaneous IoT Topics

Project: Creation of a Home/Building Automation IoT solution.

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## Cloud Native Midlevel Track

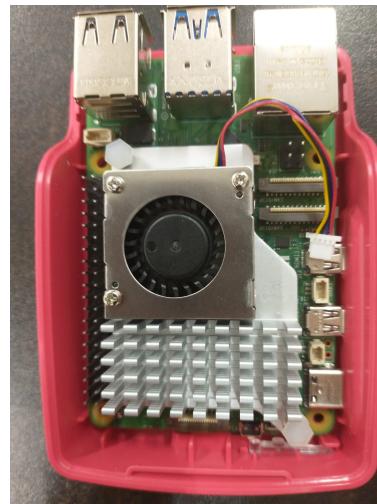
- Day 1: More Automation Programming
- Day 2: Private/Public Cloud and Its Components
- Day 3. Git/Chat OPS
- Day 4: CI/CD Platforms
- Day 5. Twelve Factor Cloud Native Patterns
- Day 6: Containers at scale with Kubernetes

Project: Creation of an in-house private cloud setup with end-to-end automated platform<sup>20</sup>

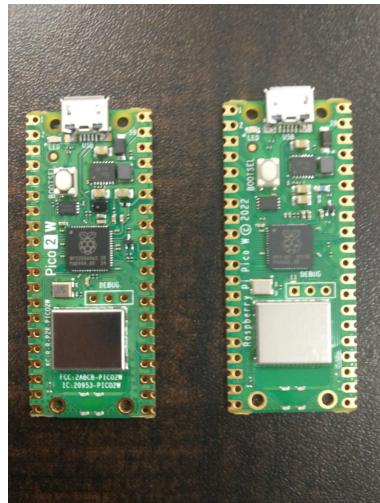
## IoT Midlevel with AI

- TBA once participants are practically comfortable and hands-on with earlier levels (requires atleast few months practice).

# Raspberry Pi 5 Cloud Native Computing and IoT Servers

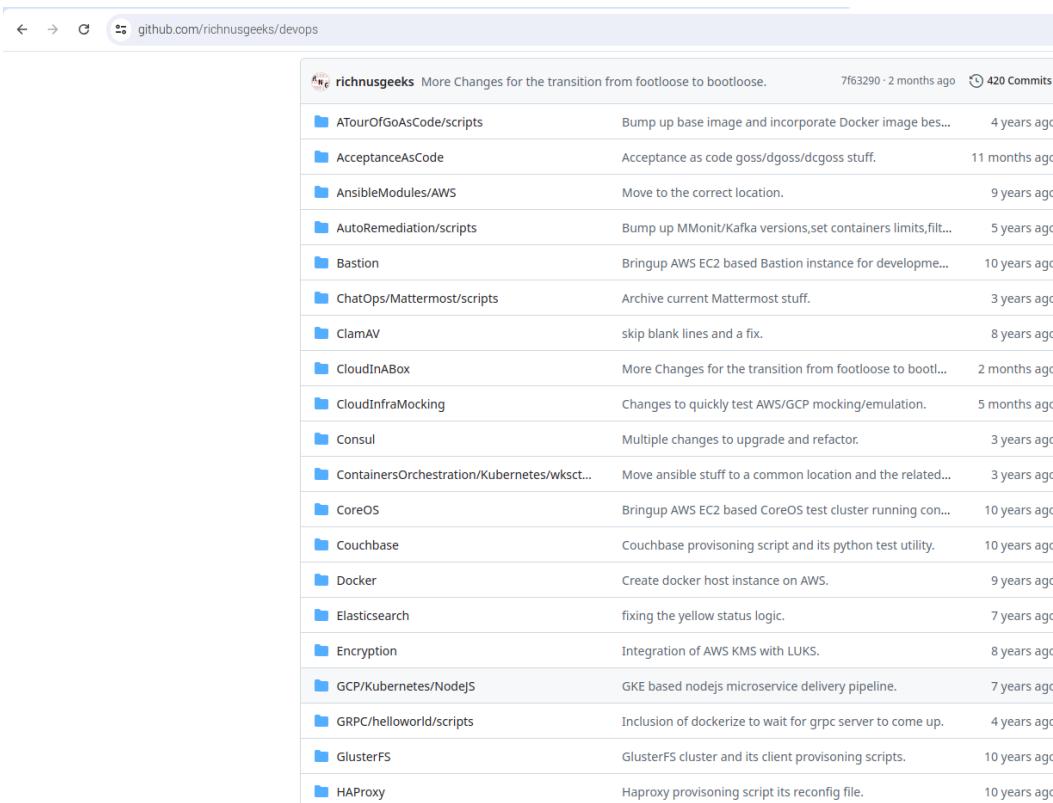


# Raspberry Pi Pico IoT Boards



# Github <https://github.com/richnusgeeks/devops>

- Some of our practical FLOSS work snippets which drove revenues in multi million/billion dollars international product companies. Although just a tip of an iceberg, glimpse of the great FLOSS ecosystem our workshop projects are derived from.

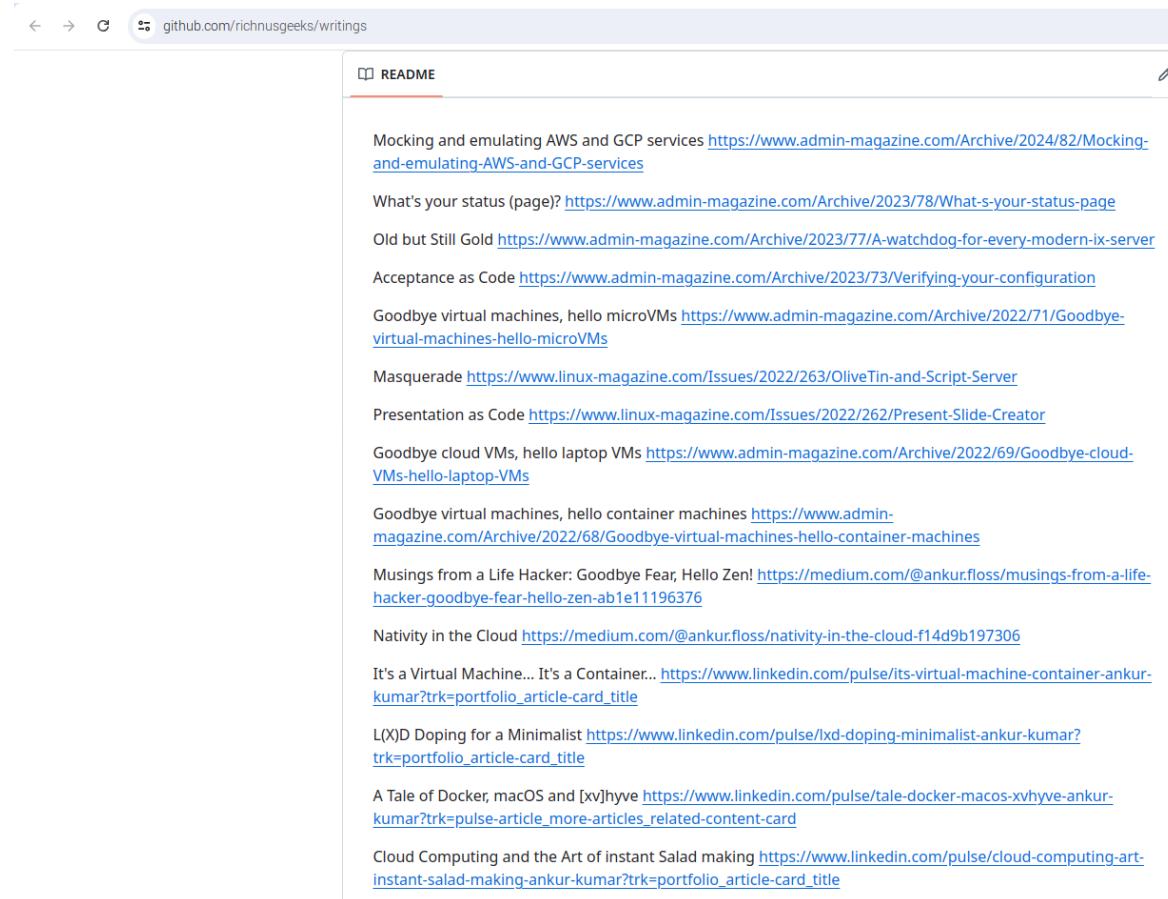


The screenshot shows a GitHub repository page for 'richnusgeeks/devops'. The page displays a list of 420 commits. The commits are listed in reverse chronological order, starting with the most recent at the top. Each commit includes the author, commit message, date, and a link to the commit details. The commits are categorized into various projects such as ATourOfGoAsCode, AcceptanceAsCode, AnsibleModules/AWS, AutoRemediation/scripts, Bastion, ChatOps/Mattermost/scripts, ClamAV, CloudInABox, CloudInfraMocking, Consul, ContainersOrchestration/Kubernetes/wksct..., CoreOS, Couchbase, Docker, Elasticsearch, Encryption, GCP/Kubernetes/NodeJS, GRPC/helloworld/scripts, GlusterFS, and HAProxy.

Author	Commit Message	Date
richnusgeeks	More Changes for the transition from footloose to bootloose.	7f63290 · 2 months ago
ATourOfGoAsCode/scripts	Bump up base image and incorporate Docker image bes...	4 years ago
AcceptanceAsCode	Acceptance as code goss/dgoss/dcgoss stuff.	11 months ago
AnsibleModules/AWS	Move to the correct location.	9 years ago
AutoRemediation/scripts	Bump up MMorit/Kafka versions, set containers limits, filt...	5 years ago
Bastion	Bringup AWS EC2 based Bastion instance for developme...	10 years ago
ChatOps/Mattermost/scripts	Archive current Mattermost stuff.	3 years ago
ClamAV	skip blank lines and a fix.	8 years ago
CloudInABox	More Changes for the transition from footloose to bootl...	2 months ago
CloudInfraMocking	Changes to quickly test AWS/GCP mocking/emulation.	5 months ago
Consul	Multiple changes to upgrade and refactor.	3 years ago
ContainersOrchestration/Kubernetes/wksct...	Move ansible stuff to a common location and the related...	3 years ago
CoreOS	Bringup AWS EC2 based CoreOS test cluster running con...	10 years ago
Couchbase	Couchbase provisioning script and its python test utility.	10 years ago
Docker	Create docker host instance on AWS.	9 years ago
Elasticsearch	fixing the yellow status logic.	7 years ago
Encryption	Integration of AWS KMS with LUKS.	8 years ago
GCP/Kubernetes/NodeJS	GKE based nodejs microservice delivery pipeline.	7 years ago
GRPC/helloworld/scripts	Inclusion of dockerize to wait for grpc server to come up.	4 years ago
GlusterFS	GlusterFS cluster and its client provisioning scripts.	10 years ago
HAProxy	Haproxy provisioning script its reconfig file.	10 years ago

# Tech Publications <https://github.com/richnusgeeks/writings>

- With some of the biggest international FLOSS publication houses.



**Thank you**

Ankur Kumar

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