



# **DEVOPS**

# **CAREER TRACK**

[poridhi.io](https://poridhi.io)



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# ABOUT Poridhi.io

**PORIDHI.IO**, IS A BRAND NEW ONLINE PLATFORM, REPRESENTED BY IT'S FOUNDER **SHAJAL AHAMED** AND CO-FOUNDER **ITTEHADUL ISLAM**, HEREINAFTER REFERRED TO AS "**PORIDHI**", THAT PROVIDES A PATH FOR LEARNERS AND JOB-SEEKERS TO LEARN JOB-READY SKILLS THAT WILL PREPARE THEM FOR INTERNATIONAL STANDARD CAREER TRACKS.

**PORIDHI** AIMS TO **REACH EVERY TECH ENTHUSIAST PEOPLE, INCLUDING UNDERREPRESENTED LEARNER GROUPS BEYOND RACE, CULTURE, GENDER AND ALL OTHER DISCRIMINATION FACTORS.**

OUR VISION IS TO PREPARE AND EXPORT LOCAL TALENT GROUP INTO GLOBAL MARKETPLACE AND CREATE A SUSTAINABLE TECH-ECOSYSTEM AROUND THE COUNTRY.



# COURSE INTRODUCTION

## WELCOME TO DEVOPS CAREER TRACK!!!

DEVOPS IS ONE OF THE MOST PROMISING CAREER PATHS FOR SOFTWARE ENGINEERS, BUT IT MAY ALSO BE DIFFICULT TO LEARN BECAUSE OF THE WIDE RANGE OF SUBJECTS COVERED. THAT IS WHY WE DESIGNED THIS COMPLETE CURRICULUM, WHICH INCLUDES A VARIETY OF COURSE-LIKE MODULES, TESTS, PROJECTS, AND TASKS.

OUR CURRICULUM IS INTENDED TO GIVE YOU THE NECESSARY GUIDANCE AND LEARNING EXPERIENCES TO PREPARE YOU FOR A CAREER IN DEVOPS COMPLETELY. THE PROGRAM WILL LAST SEVEN MONTHS AND WILL BE GUIDED BY A NUMBER OF OUTSTANDING INSTRUCTORS. YOU WILL TAKE FREQUENT TESTS, COLLABORATE ON GROUP PROJECTS, AND LEARN ABOUT A RANGE OF TOPICS SUCH AS LINUX NETWORKING, FUNDAMENTAL LINUX, GCP, AMAZON, KUBERNETES, CI/CD, AND TERRAFORM.

BUT WHAT ABOUT THE BASIC LEARNING ELIGIBILITY FOR THE SESSION? WE UNDERSTAND THAT DEVOPS ENGINEERING REQUIRES A BROAD KNOWLEDGE BASE, SO WE'VE INCLUDED A FREE COURSE SEGMENT CALLED DEVOPS 101, COVERING BASICS FOR JAVASCRIPT, REACT, PYTHON, NODEJS, REDIS, KAFKA, ELASTICSEARCH, BASIC LINUX, AND BASIC CLOUD ENGINEERING. THE COURSE OVERVIEW IS DESIGNED TO COVER THE SUFFICIENT LEARNING CURVE FOR ALL TOPICS RELATED TO DEVOPS. THIS COMPLETELY FREE MODULE WILL HELP YOU GAIN THE MOMENTUM TO COPE WITH THE ADVANCED TOPICS FOR THE WHOLE SESSION.

OUR PROGRAM IS DESIGNED FOR INDIVIDUALS WITH AN INTERMEDIATE UNDERSTANDING OF COMPUTER ENGINEERING. WITH ABOUT 20 EXAMS, THIS CAREER TRACK SESSION WILL PREPARE YOU TO BECOME SKILLFUL ENOUGH TO CRACK REMOTE JOB OPPORTUNITIES.

WE'VE ALSO MADE IT EASY FOR YOU TO PARTICIPATE IN EACH COURSE MODULE INDIVIDUALLY. AND TO ENSURE PRACTICE WITHOUT DISRUPTION, STUDENTS WILL GET FREE ACCESS TO ALL CLOUDS. THIS IS ONE OF THOSE TURNING POINTS THAT WOULD DEFINE THE GOAL AND CAREER TRACK FOR A DEVOPS ENTHUSIAST TO THE DESTINATION OF SUCCESS AND SKILL, SO JOIN US TODAY TO TAKE YOUR DEVOPS CAREER TO THE NEXT LEVEL!



# COURSE INSTRUCTOR

OUR INSTRUCTOR **SHAJAL AHAMED**, FOUNDER AND INSTRUCTOR OF PORIDHI.IO IS A DEVOPS CONSULTANT WITH A CAN-DO ATTITUDE AND MIGHTY PASSION FOR COMPUTER SCIENCE AND ENGINEERING. ACQUIRED WITH CORE TECHNICAL KNOWLEDGE OF LINUX, AND HANDS ON EXPERIENCE ON DEVOPS METHODOLOGY , AUTOMATION AND CONFIGURATION MANAGEMENT.

HE IS ALSO EXPERIENCED IN DESIGN AND IMPLEMENTATION OF FULLY AUTOMATED CONTINUOUS INTEGRATION, CONTINUOUS DELIVERY AND DEPLOYMENT PIPELINE. HE HAS BEEN A SOFTWARE ENGINEER AND A DEVOPS CONSULTANT FOR RENATA, AIR-ASIA, INTERCLOUD AND ITECHSOFTBD. HE IS CURRENTLY WRITING CODES FOR OPENSTACK INFRASTRUCTURE. HIS DREAM TO PAVE THE WAY OF SOFTWARE ENGINEERING AND COMPUTER SCIENCE FOR THE NEWER GENERATION WAS THE FOUNDATION OF ESTABLISHING PORIDHI, IO. IN THE COURSE, HE WILL EXPLORE THE WONDERFUL POSSIBILITIES OF LEARNING DOCKER AND WAYS TO MASTER IT SPECIALLY FOR THE ENGINEERS THAT HAVE MAJOR FOCUS ON DEVOPS.



**SHAJAL  
AHAMED**

# COURSE INSTRUCTOR

OUR INSTRUCTOR, MD. NAHIDUL ISLAM IS, A SKILLED SOFTWARE ENGINEER PASSIONATE ABOUT ALL THINGS COMPUTER SCIENCE. HAILING FROM CHITTAGONG, BANGLADESH, NAHIDUL GRADUATED FROM THE ESTEEMED CHITTAGONG UNIVERSITY OF ENGINEERING AND TECHNOLOGY.

FOR THE PAST SIX YEARS, NAHIDUL HAS BEEN WORKING AS A SYSTEM AND STORAGE ADMINISTRATOR IN PRIVATE SERVICE. HE HAS GAINED A WEALTH OF EXPERIENCE IN RISC SYSTEMS, LINUX SYSTEMS, ENTERPRISE STORAGE, BACKUP, AND VIRTUALIZATION TECHNOLOGIES. WITH HIS HANDS-ON EXPERTISE, NAHIDUL EXCELS AT OVERSEEING AND ADMINISTERING SAN STORAGE EXHIBITS AND FABRIC SWITCHES AND ENSURING SEAMLESS INTEGRATIONS BETWEEN SERVERS AND APPLICATIONS.

WITH OVER SIX YEARS OF EXPERIENCE IN THE FIELD, NAHIDUL IS A SEASONED PROFESSIONAL AND A VALUABLE ASSET TO HIS TEAM AND THE COMMUNITY. HE IS DEDICATED TO DELIVERING TOP-NOTCH SERVICE AND SOLUTIONS, AND IS ALWAYS EAGER TO TAKE ON NEW CHALLENGES TO SPREAD HIS EXPERIENCES AND INSIGHTS AMONGST THE NEWER GENERATION OF THE COMMUNITY AND CONTINUE LEARNING IN THE EVER-EVOLVING WORLD OF TECHNOLOGY.



**NAHIDUL  
ISLAM**



# COURSE INSTRUCTOR

OUR NEW INSTRUCTOR, **UMAR FARUQ CHOWDHURY** IS A FULL STACK ENGINEER WITH EXPERIENCE IN BOTH FRONTEND AND BACKEND DEVELOPMENT. HE CURRENTLY WORKS AS A SOFTWARE ENGINEER AT NEOVOTECH WHERE HE LEADS A TEAM OF ENGINEERS AND MANAGES THE SUCCESSFUL DEVELOPMENT OF A CUSTOMER TRACKING WEB APPLICATION. UMAR HAS EXPERIENCE WORKING WITH NEXTJS, FIREBASE, FORTNOX, GCP, NODEJS, DOCKER, KUBERNETES, TERRAFORM AND AWS. HE GRADUATED FROM THE UNIVERSITY OF DHAKA AND HAS A GENUINE PASSION FOR SOFTWARE AND FULL STACK ENGINEERING. HE ENJOYS EXPLORING NEW TECHNOLOGIES AND HELPING ENGINEERS GET THINGS DONE. HE IS KEEN TO WORK WITH MODERN AND CUTTING-EDGE WEB APPLICATIONS AND SCALABLE SYSTEMS. HE ALSO HAS EXPERIENCE IN VPC PEERING & REVERSE PROXY ON GCP, MICROSERVICE ARCHITECTURE WITH NODEJS & REDIS. HE ALSO HAS EXPERIENCE IN FULL STACK APPLICATION WITH REDIS CACHE & PUB/SUB.



**UMAR FARUQ  
CHOWDHURY**

# COURSE INSTRUCTOR

OUR INSTRUCTOR **SAHADAT HOSSAIN** IS A PROFESSIONAL SOFTWARE ENGINEER WITH A PASSION FOR INNOVATION AND PROBLEM-SOLVING. SAHADAT HOSSAIN IS A SOFTWARE ENGINEER II (BACKEND/DEVOPS) CURRENTLY WORKING REMOTELY IN JAPAN FOR LASTRUST INC. WITH EXTENSIVE EXPERIENCE WORKING WITH KUBERNETES AND DOCKER RELATED TECHNOLOGIES, SAHADAT HAS A DEEP PASSION FOR INNOVATION AND PROBLEM SOLVING. HE HAS DEMONSTRATED HIS EXPERTISE IN DESIGNING, DEVELOPING, AND IMPLEMENTING COMPLEX SYSTEMS THROUGHOUT HIS CAREER. AS A PROFESSIONAL SOFTWARE ENGINEER, SAHADAT IS DEDICATED TO HELPING OTHERS LEARN AND GROW IN THEIR DEVOPS CAREERS. HE IS EXCITED TO COLLABORATE WITH YOU AND SHARE HIS KNOWLEDGE AND EXPERIENCE TO HELP YOU SUCCEED IN THIS COURSE AND BEYOND.



**SAHADAT  
HOSSAIN**



# COURSE OVERVIEW

## MODULE 0: **FULL STACK BASICS TO ADVANCE**

- INSTRUCTOR: SHAJAL AHAMED, UMAR FARUQ CHOWDHURY
- CLASSES: 4
- EXAM: 2
- PROJECT: 2
- TIMELINE: 4 WEEKS

## TOPICS

- JAVASCRIPT BASICS
- REACT BASICS
- NODE JS BASICS
- PYTHON BASICS
- REDIS BASICS
- KAFKA BASICS
- ELASTICS SEARCH BASICS
- MONGODB BASICS
- MYSQL BASICS
- POST GRESS BASICS

# COURSE OVERVIEW

## MODULE 1: NETWORKING FOR DEVOPS

- INSTRUCTOR: SHAJAL AHAMED
- CLASSES: 3
- EXAM: 2
- TIMELINE: 2 WEEKS

## TOPICS

- HOW DOES THE **SWITCH** WORK?
- HOW DOES THE **ROUTER** WORK?
- CREATE LAB USING **LINUX NAMESPACE**
- HOW DOES **VXLAN** WORK?
- CREATE **OVERLAY NETWORK** USING **VXLAN**
- UNDERSTANDING **TCPDUMP**
- UNDERSTANDING **IPTABLES**

# COURSE OVERVIEW

## MODULE 2: BASIC LINUX

- INSTRUCTOR: NAHIDUL ISLAM
- CLASSES: 3
- EXAM: 1
- PROJECT: 2
- TIMELINE: 2 WEEKS

## TOPICS

- HOW DOES **LINUX** WORK?
- IP TABLE
- BASIC NETWORKING CONFIGURATION
- SCRIPTING (CLASS 2)
- BASH SCRIPTING
- SHELL. SCRIPTING
- BI EDITOR (CLASS 3)
- FILE MANAGEMENT
- USER MANAGEMEN



# COURSE OVERVIEW

## MODULE 3: **GCP BASIC TO ADVANCE**

INSTRUCTOR: SHAJAL AHAMED

CLASSES: 5

EXAM: 2

PROJECT: 2

TIMELINE: 3 WEEKS

## TOPICS

- VPC DESIGN
- SUBNET DESIGN
- CLOUD ROUTER ATTACHMENT PLANNING
- CLOUD NAT ATTACHMENT PLANNING
- FIREWALL
- VPC PEERING
- DISK ATTACHMENT TO **VM**
- DEPLOY BACKEND APPLICATION IN **GCP**
- **MYSQL** DEPLOYMENT
- **ELASTICSEARCH** DEPLOYMENT

# COURSE OVERVIEW

## MODULE 4: AWS BASIC TO ADVANCE

- INSTRUCTOR: SHAJAL AHAMED
- CLASSES: 5
- EXAM: 2
- PROJECT: 2
- TIMELINE: 3 WEEKS

## TOPICS

- VPC DESIGN
- SUBNET DESIGN
- ROUTE TABLE PLANNING
- NAT GATEWAY ATTACHMENT PLANNING
- SECURITY GROUP
- VPC PEERING
- DEPLOY BACKEND APPLICATION IN AWS- UMAR BHAI
- DISK ATTACHMENT TO VM
- MYSQL DEPLOYMENT
- ELASTICSEARCH DEPLOYMENT
- DEPLOY FULLSTACK APPLICATION IN AWS.

# COURSE OVERVIEW

## MODULE 5: DOCKER

- INSTRUCTOR: SHAJAL AHAMED
- CLASSES: 5
- EXAM: 2
- PROJECT: 2
- TIMELINE: 4 WEEKS

## TOPICS

- DOCKER NETWORKING INTERNALS
- LET'S LEARN TO WRITE A DOCKER FILE
- DOCKER-COMPOSE
- DOCKER VOLUME
- DOCKER-BASED MYSQL REPLICATION- UMAR BHAI
- DOCKER-BASED POSTGRES REPLICATION
- ELASTICSEARCH DEPLOYMENT AND INTEGRATION
- REDIS DEPLOYMENT AND INTEGRATION
- KAFKA DEPLOYMENT AND INTEGRATION
- MYSQL TO ELASTICSEARCH USING DEBEZIUM
- NGINX LAYER 4 LOAD BALANCER
- NGINX LAYER 7 LOAD BALANCER
- FULL STACK APPLICATION DEPLOYMENT



# COURSE OVERVIEW

## MODULE 6: KUBERNETES

- INSTRUCTOR: SAHADAT HOSSAIN
- CLASSES: 7
- EXAM: 2
- PROJECT: 2
- TIMELINE: 5 WEEKS

## TOPICS

- KUBERNETES ARCHITECTURE AND THEORY
- PODS, DEPLOYMENT, SERVICES, SECRETS,ETCD, NAMESPACE
- GKE DEPLOYMENT AND BASICS
- FULL STACK APPLICATION DEPLOYMENT
- INGRESS DEPLOYMENT
- KUBERNETES NETWORKING INTERNALS
- NETWORK DEBUGGING
- AUTOSCALING, LOGGING , MONITORING
- BAREMETAL KUBERNETES DEPLOYMENT

# COURSE OVERVIEW

## MODULE 7: TERRAFORM FOR AWS

- INSTRUCTOR: SHAJAL AHAMED
- CLASSES: 3
- EXAM: 2
- PROJECT: 2
- TIMELINE: 2 WEEKS

## TOPICS

- TERRAFORM BASICS
- AWS VPC DEPLOYMENT WITH TERRAFORM
- AWS SUBNET DEPLOYMENT WITH TERRAFORM
- VM DEPLOYMENT
- EKS DEPLOYMENT
- MODULE DEVELOPMENT

# COURSE OVERVIEW

## MODULE 8: TERRAFORM FOR GCP

- INSTRUCTOR: SHAJAL AHAMED
- CLASSES: 3
- EXAM: 2
- PROJECT: 2
- TIMELINE: 2 WEEKS

## TOPICS

- VPC DEPLOYMENT WITH TERRAFORM
- SUBNET DEPLOYMENT WITH TERRAFORM
- VM DEPLOYMENT
- GKE DEPLOYMENT
- MODULE DEVELOPMENT



# COURSE OVERVIEW

## MODULE 9: CI/CD

- INSTRUCTOR: SHAJAL AHAMED
- CLASSES: 2
- EXAM: 2
- PROJECT: 3
- TIMELINE: 2 WEEKS

## TOPICS

- WRITE MAKEFILE TO BUILD THE DOCKER IMAGE
- WRITE MAKEFILE TO PUSH INTO GCR AND ECR
- WRITE GITHUB ACTION TO INTEGRATE WITH MAKEFILE
- WRITE GITHUB ACTION FOR TERRAFORM PLAN
- WRITE GITHUB ACTION FOR TERRAFORM APPLY

# COURSE OVERVIEW

## MODULE 10: REVISION, ASSESSMENT, INTERVIEW PREPARATION & FEEDBACK

INSTRUCTOR: SHAJAL AHAMED, NAHIDUL ISLAM, SAHADAT  
HOSSAIN

CLASSES: 3

EXAM: 1

PROJECT: 1

TIMELINE: 2 WEEKS

**32 CLASS**

**16 EXAMS**

**20 PROJECTS**

# COURSE OUTCOME

## 1. COURSE CERTIFICATE

EVERYONE WILL GET A COURSE COMPLETION CERTIFICATE WHICH CAN BE SCANNED AND VERIFIED FROM OUR WEBSITE. YOU CAN DOWNLOAD THE SOFT COPY OF THE CERTIFICATE ONLINE AND THE PRINTED COPY WILL BE DELIVERED TO YOUR ADDRESS

## 2. OPPORTUNITY TO WORK WITH US

AMONG THOSE WHO WILL GET GOOD RESULTS IN ALL THE EXAMS OF THE COURSE, THE FIRST 3 PEOPLE WILL BE GIVEN THE OPPORTUNITY OF PAID INTERNSHIP IN OUR COMPANY. ALSO, YOU WILL GET THE OPPORTUNITY TO WORK DIRECTLY WITH SHAJAL AHAMED, THE FOUNDER OF PORIDHI.IO.

## 3. JOB RECOMMENDATION LETTER

WE WILL WRITE A JOB RECOMMENDATION LETTER TO THOSE WHO WILL SCORE WELL IN VARIOUS QUIZZES, ASSIGNMENTS AND TESTS OF THE COURSE AND GET AT LEAST 70% MARKS OVERALL. THIS COURSE CANNOT GUARANTEE A JOB TO ANYONE, BUT PROPER GUIDANCE WILL ENSURE HARDWORKING AND DEDICATED LEARNERS AND HELP THEM PERFORM WELL IN JOB INTERVIEWS WITH CONFIDENCE.

## 4. LIFETIME COURSE ACCESS

THOSE WHO PURCHASE THE COURSE ONCE, WILL RECEIVE LIFETIME ACCESS TO ALL COURSE CONTENT AND WILL CONTINUE TO RECEIVE ALL FUTURE UPDATES. IN ADDITION, YOU WILL HAVE LIFETIME ACCESS TO THE PRIVATE GROUP WHERE WE WILL TRY TO ANSWER YOUR QUESTIONS.





# THANK YOU!

LET'S HOPE TO MEET AGAIN IN THE NEXT SESSIONS.

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