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COUNTRYEDU PRIVATE LIMITED

GSTIN : 06AAJCC6151A1Z3|CIN:U72900HR2021PTC096283

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1-Month Cloud Development Immersion Internship

Designed by: CountryEdu Private Limited

By CountryEdu Private Limited

(IT Managed Services & EdTech Solutions)

Program Objective :

- Understanding cloud computing concepts, cloud infrastructure, and cloud-native application development
- Developing expertise in cloud services, deployment models, and cloud architecture
- Learning cloud storage, virtualization, containerization, and DevOps fundamentals
- Building scalable, secure, and high-availability cloud-based applications
- Understanding cloud security, monitoring, and deployment best practices
- Preparing students for careers in Cloud Development, Cloud Engineering, DevOps, and Infrastructure Management

Program Structure :

- Duration: 4Weeks (1 Month)
- Mode: Hybrid / Live / Classroom
- Tools Used: AWS, Microsoft Azure, Google Cloud Platform (GCP), Docker, Kubernetes, GitHub, Terraform
- Final Outcome: Cloud-Based Application Deployment Project + Internship Certificate

Week 1: CLOUD COMPUTING FUNDAMENTALS

- Introduction to Cloud Computing
- Cloud Service Models (IaaS, PaaS, SaaS)
- Public, Private & Hybrid Cloud
- Cloud Architecture Fundamentals
- Virtualization Concepts
- Cloud Development Environment Setup

~ Outcome: Strong foundation in cloud computing concepts, architecture, and service models.

Week 2: CLOUD SERVICES & APPLICATION DEPLOYMENT

- Cloud Storage Services
- Compute Services & Virtual Machines
- Database Services in Cloud
- Cloud Networking Fundamentals
- Application Deployment Basics
- Resource Management & Monitoring

~ Outcome: Ability to deploy and manage applications and services in cloud environments

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Week 3: CONTAINERIZATION & DEVOPS FUNDAMENTALS

- Introduction to Docker
- Containerization Concepts
- Kubernetes Fundamentals
- CI/CD Pipeline Basics
- Infrastructure as Code (IaC)
- Cloud Automation Techniques

~ Outcome: Ability to manage containerized applications and automate deployment workflows.

Week 4: CLOUD SECURITY & PROJECT DEVELOPMENT

- Cloud Security Fundamentals
- Identity & Access Management (IAM)
- Data Protection & Backup Strategies
- Cloud Cost Optimization
- Industry Best Practices
- Project Development & Presentation

~ Outcome: Ability to secure, optimize, and manage cloud-based solutions using industry-standard practices.

LIVE PROJECT & CAREER READINESS

Students work on real-world Cloud Development projects such as:

- Cloud-Based Web Application Deployment
- Scalable E-Commerce Infrastructure
- Cloud Storage & Backup Solution
- Containerized Application Deployment
- DevOps CI/CD Pipeline Project
- Cloud Resource Monitoring Dashboard

Project Includes:

- Requirement Analysis & Architecture Planning
- Cloud Resource Configuration
- Application Deployment & Integration
- Security & Access Management
- Monitoring & Optimization
- Final Project Presentation

~ Outcome: Hands-on experience in developing and deploying industry-level cloud solutions demonstrating cloud infrastructure management, deployment automation, security implementation, and performance optimization.

From beginner to job-ready – Become an Cloud Development Professional in 1 Month.