

COUNTRYEDU PRIVATE LIMITED

GSTIN : 06AAJCC6151A1Z3 | CIN : U72900HR2021PTC096283

Email : query@countryedu.com, grievances@countryedu.com

Cloud Development Immersion Internship

Designed by: CountryEdu Private Limited

By CountryEdu Private Limited

(IT Managed Services & EdTech Solutions)

Program Objective :

To transform students into job-ready Cloud Developers capable of:

- Understanding cloud computing concepts, services, and deployment models
- Building and deploying scalable cloud-based applications and services
- Developing hands-on experience with cloud platforms, virtualization, and storage systems
- Learning cloud security, DevOps basics, and infrastructure management workflows
- Gaining practical exposure to cloud deployment, monitoring, and automation tools
- Preparing students for careers in Cloud Development, Cloud Engineering, and DevOps

Program Structure :

- Duration: 12 Weeks (3 Months)
- Mode: Hybrid / Live / Classroom
- Tools Used: AWS, Microsoft Azure, Google Cloud Platform (GCP), Docker, GitHub, Linux, VS Code
- Learning Model: Project-Based Learning Model

Final Outcome: Ability to deploy and manage cloud-based applications and services + Internship Certificate

MONTH 1 – CLOUD COMPUTING FUNDAMENTALS

Week 1: Introduction to Cloud Computing

- Introduction to Cloud Computing
- Cloud Service Models (IaaS, PaaS, SaaS)
- Public, Private & Hybrid Cloud
- Cloud Computing Architecture
- Virtualization Basics
- Cloud Career Opportunities

~ Outcome: Strong foundation in cloud computing concepts and cloud environments

Week 2: Linux & Networking Basics

- Introduction to Linux
- Linux Commands & File System
- User & Permission Management
- Networking Fundamentals
- IP Addressing & DNS
- Cloud Networking Basics

~ Outcome: Ability to work in Linux environments and understand cloud networking concepts

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Week 3: AWS / Azure / GCP Fundamentals

- Introduction to AWS, Azure & GCP
- Cloud Console Navigation
- Virtual Machines & Compute Services
- Storage Services Basics
- Database Services Overview
- Cloud Resource Management

~ Outcome: Ability to work with major cloud platforms and cloud resources

Week 4: Cloud Storage & Database Services

- Cloud Storage Concepts
- Object Storage & File Storage
- Cloud Databases Basics
- Backup & Recovery Basics
- Cloud Security Fundamentals
- Identity & Access Management (IAM)

~ Outcome: Ability to manage cloud storage, databases, and security configurations

MONTH 2 – CLOUD DEVELOPMENT & DEVOPS BASICS

Week 5: Application Deployment on Cloud

- Introduction to Cloud Deployment
- Hosting Web Applications
- Environment Configuration
- Server Setup Basics
- Deployment Best Practices
- Monitoring Basics

~ Outcome: Ability to deploy and manage applications on cloud platforms

Week 6: Docker & Containerization

- Introduction to Docker
- Containers vs Virtual Machines
- Docker Installation & Setup
- Docker Images & Containers
- Docker Compose Basics
- Container Deployment Workflow

~ Outcome: Ability to create and manage containerized applications

Week 7: DevOps & Automation Basics

- Introduction to DevOps
- CI/CD Fundamentals
- Git & GitHub Workflow
- Automation Basics
- Cloud Monitoring Tools
- Infrastructure as Code Overview

~ Outcome: Ability to understand DevOps workflows and automation practices

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Week 8: Cloud Security & Optimization

- Cloud Security Best Practices
- Authentication & Authorization
- Firewall & Security Groups
- Performance Optimization
- Cost Optimization Basics
- Troubleshooting Cloud Services

~ Outcome: Ability to secure and optimize cloud environments professionally

MONTH 3 – LIVE PROJECT & CAREER READINESS

Week 9–10: Cloud Development Project

Students work on real-world Cloud Projects such as:

- Cloud-based Web Application Deployment
- Dockerized Application Hosting
- Cloud Storage Management System
- CI/CD Deployment Workflow
- Cloud Monitoring Dashboard
- Multi-tier Cloud Application

Project Includes:

- Requirement Analysis
- Cloud Architecture Planning
- Deployment & Configuration
- Monitoring & Optimization
- Final Project Presentation

~ Outcome: Ability to deploy and manage complete cloud-based applications professionally

Week 11: Deployment & Professional Workflow

- Cloud Deployment Strategies
- Server Monitoring Basics
- Project Documentation
- Cloud Portfolio Development
- GitHub Project Management
- Cloud Service Reporting

~ Outcome: Ability to professionally manage and present cloud development projects

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Week 12: Interview & Career Preparation

- Cloud Computing Interview Preparation
- Resume & LinkedIn Optimization
- Mock Interviews
- Cloud Certification Guidance
- Freelancing & Internship Guidance
- Career Pathways (Cloud Developer, Cloud Engineer, DevOps Associate, AWS Associate)

~ Outcome: Placement-ready Cloud Development professional with practical deployment experience

Key Skills Developed

- Cloud Computing Fundamentals
- AWS / Azure / GCP Basics
- Linux & Cloud Networking
- Docker & Containerization
- Cloud Deployment
- DevOps Fundamentals
- Cloud Security & Monitoring
- Git & GitHub Workflow

Target Roles After Completion

- Cloud Developer
- Cloud Engineer
- DevOps Associate
- AWS Associate
- Cloud Support Engineer
- Freelance Cloud Consultant

Why This Program is Industry-Ready

- ✓ 100% Project-Based Learning
- ✓ Real-world Cloud Deployment Experience
- ✓ Multi-cloud Platform Exposure
- ✓ DevOps & Containerization Basics
- ✓ Portfolio & Career Preparation Included

From Beginner to Professional — Become a Cloud Development Expert in 3 Months.