

COUNTRYEDU PRIVATE LIMITED

GSTIN : 06AAJCC6151A1Z3 | CIN : U72900HR2021PTC096283

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

2-Months 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 architecture, and modern cloud development practices
- Developing expertise in cloud platforms, virtual infrastructure, and cloud-native application development
- Learning cloud deployment, storage management, networking, and security fundamentals
- Building scalable applications using cloud services and DevOps methodologies
- Understanding containerization, serverless computing, and cloud automation techniques
- Preparing students for careers in Cloud Development, Cloud Engineering, DevOps, and Cloud Solutions Architecture

Program Structure :

- Duration: 8 Weeks (2 Months)
- Mode: Hybrid / Live / Classroom
- Tools Used: AWS, Microsoft Azure, Google Cloud Platform (GCP), Docker, Kubernetes, GitHub, Terraform, Jenkins
- Final Outcome: Cloud-Based Application Deployment Project + Internship Certificate

MONTH 1 – CLOUD COMPUTING FOUNDATION

Week 1: Introduction to Cloud Computing & Cloud Platforms

- Fundamentals of Cloud Computing
- Cloud Service Models (IaaS, PaaS, SaaS)
- Public, Private & Hybrid Cloud Architecture
- Introduction to AWS, Azure & GCP
- Cloud Infrastructure & Resource Management

~ Outcome: Strong foundation in cloud computing concepts, cloud services, and infrastructure management.

Week 2: Cloud Infrastructure & Virtualization

- Virtual Machines & Cloud Instances
- Storage Services & Cloud Databases
- Cloud Networking Fundamentals
- Load Balancing Concepts
- Resource Provisioning & Management

~ Outcome: Ability to configure and manage cloud infrastructure resources efficiently.

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Week 3: Cloud Application Development

- Cloud-Native Application Fundamentals
- Application Deployment Models
- API Integration in Cloud Environments
- Database Connectivity & Cloud Storage
- Scalable Application Design Principles

~ Outcome: Ability to develop and deploy cloud-ready applications using modern architectures.

Week 4: Cloud Security & Identity Management

- Cloud Security Fundamentals
- Identity & Access Management (IAM)
- Authentication & Authorization Models
- Data Protection & Encryption
- Cloud Compliance & Governance Basics

~ Outcome: Ability to implement secure cloud environments and protect cloud-based resources.

MONTH 2 – ADVANCED CLOUD DEVELOPMENT & DEVOPS

Week 5: Containerization & Microservices

- Docker Fundamentals
- Container Creation & Management
- Microservices Architecture
- Container Deployment Strategies
- Container Security Best Practices

~ Outcome: Ability to develop and deploy containerized cloud applications.

Week 6: Kubernetes & Cloud Orchestration

- Kubernetes Fundamentals
- Cluster Management Concepts
- Pod, Service & Deployment Management
- Auto Scaling & Load Distribution
- Cloud Orchestration Best Practices

~ Outcome: Ability to manage scalable applications using container orchestration platforms.

Week 7: DevOps, CI/CD & Automation

- Introduction to DevOps Practices
- Continuous Integration & Continuous Deployment
- Jenkins & GitHub Actions
- Infrastructure as Code (Terraform)
- Automated Deployment Pipelines

~ Outcome: Ability to automate cloud deployments and implement DevOps workflows.

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Week 8: Serverless Computing & Cloud Optimization

- Serverless Architecture Fundamentals
- AWS Lambda & Cloud Functions
- Cost Optimization Techniques
- Monitoring & Performance Management
- Cloud Best Practices & Industry Standards

~ Outcome: Ability to optimize cloud resources and build efficient serverless applications.

LIVE PROJECT & CAREER READINESS

Major Project Development

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

- Cloud-Based Web Application Deployment
- Scalable E-Commerce Infrastructure
- Cloud Storage & File Management System
- Containerized Microservices Application
- Serverless Event Processing System
- DevOps CI/CD Automation Pipeline

Project Includes:

- Cloud Architecture Design
- Infrastructure Provisioning
- Application Deployment & Configuration
- Security Implementation
- Performance Optimization
- Final Project Presentation

~ Outcome: Fully functional industry-level cloud solution demonstrating deployment, scalability, automation, and cloud security capabilities.

From beginner to job-ready — Become a Cloud Development Professional in 2 Months.