CLOUD DEVOPS ENGINEER

Access to Interview Opportunities with Top Companies

Industry-Relevant Curriculum Designed and Taught by Industry Experts
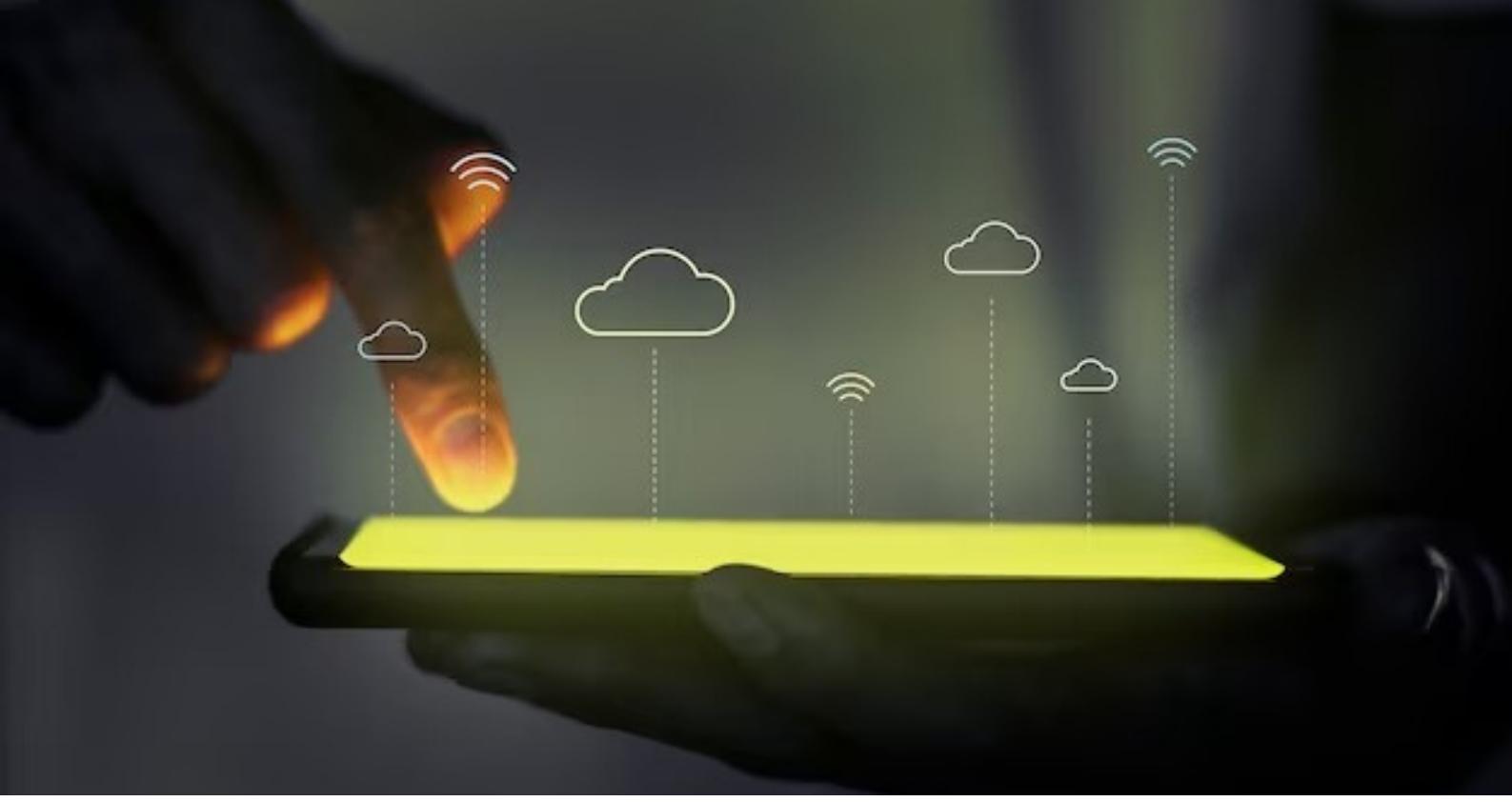
Hands on Project and Industry Specific Tools

Dedicated CareerSupport and Interview Preparation

Post Graduate Certificatefrom Great Lakes Executive Learning

Becoming a Cloud Architect in the IT industry is a strategic career choice driven by several compelling factors. Cloud computing has become a cornerstone of modern IT practices, leading to a surge in demand for professionals with expertise in cloud architecture. Cloud Architects play a pivotal role in digital transformation initiatives, designing and implementing scalable, secure, and innovative cloud solutions. Their diverse skill set encompasses infrastructure design, security, networking, and application architecture, making them invaluable assets for organizations seeking to optimize their cloud environments. Cloud Architects often work across multiple cloud platforms, such as AWS, Azure, or Google Cloud, providing versatility and adaptability. The high demand for these professionals translates to competitive salaries and global job opportunities. Additionally, Cloud Architects have the chance to work with cutting-edge technologies, contribute to sustainability efforts, and enjoy continuous learning opportunities in a field that is at the forefront of technological innovation. The role offers job security, stability, and the satisfaction of contributing to the efficiency and security of IT environments.

The Program helps you do grow and bloom in Industry and developed by best-in-class industry experts.It offers a blend of online learning with live and recorded lectures along with access to dedicated career support and rewarding job opportunities.

LEARN ONLINE ANYTIME, ANYWHERE

Learn from live masterclasses by top industryleaders and online lab sessions every week, along with 100+ hours of learning content.

WEEKLY ONLINE MENTORSHIPFROM EXPERTS

Get assistance on projects and reinforce the concepts you learn through weekly mentorship sessions.

NETWORK WITH LIKE-MINDED PEERS

Interact with peers from diverse backgroundsand grow your professional network.

DEDICATED PROGRAM SUPPORT

Access dedicated support on your learning journey and resolve for all your queries withhelp from a dedicated Program Manager.

A fresh graduate or a working professional looking to up-skill andbuild a career.

CLOUD DEVOPS ENGINEER COURSE CONTENT

1.Introduction to Cloud and DevOps

1.1 Understanding Cloud Computing

1.2 DevOps Principles and Practices

1.3 Benefits of Cloud DevOps

2.Cloud Platforms

2.1 Introduction to Cloud Service Providers (e.g., AWS,

Azure,Google Cloud)

2.2 Creating and Managing Cloud Accounts

2.3 Cloud Resource Management and Cost Control

3.Version Control and Collaboration Tools

3.1 Git and GitHub/GitLab
3.2 Git Branching and Merging Strategies
3.3 Collaborative Development Practices

4. Infrastructure as Code (IaC)

4.1 Introduction to IaC

4.2 Using Terraform or AWS CloudFormation

4.3 Managing Infrastructure as Code

5. Containerization and Orchestration

5.1 Docker and Containerization Concepts

5.2 Kubernetes Orchestration

5.3 Deploying Applications with Containers

6. Continuous Integration (CI)

6.1 CI/CD Concepts and Principles

6.2 Setting Up CI Pipelines with Jenkins or GitLab CI/CD

6.3 Automated Testing and Code Quality

7 .Continuous Deployment (CD)

7.1 Implementing CD Pipelines

7.2 Blue-Green Deployments

7.3 Canary Deployments

7.4 Deployment Automation

8.Monitoring and Logging

8.1 Application and Infrastructure Monitoring

8.2 Log Management and Analysis

8.3 Alerts and Incident Response

9. Security in DevOps

9.1 DevSecOps Principles

9.2 Secure Coding Practices

9.3 Identity and Access Management (IAM) in Cloud

10.Configuration Management

10.1 Managing Configuration Files

10.2 Infrastructure Configuration with Ansible or Puppet

11Cloud-Native Application Development

11.1 Microservices Architecture

11.2 Serverless Computing

12.High Availability and Disaster Recovery

12.1 Strategies for High Availability

12.2 Backup and Disaster Recovery Planning

13.Scalability and Load Balancing

13.1 Auto-scaling Applications

13.2 Load Balancing Strategies

14. Collaboration and Communication Toolst

14.1 Communication and Documentation Tools
14.2 Agile and Scrum Principles

15. DevOps Culture and Best Practices

15.1 Building a DevOps Culture
15.2 DevOps Best Practices and Case Studies

16. Capstone Project

16.1 Building and Deploying a Real-World Cloud- NativeApplication
16.2 Final Project Presentation and Assessment

17. Exam Preparation (if applicable)

17.1 Review and Practice for Certification Exams

READY TO ADVANCE YOUR CAREER?

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