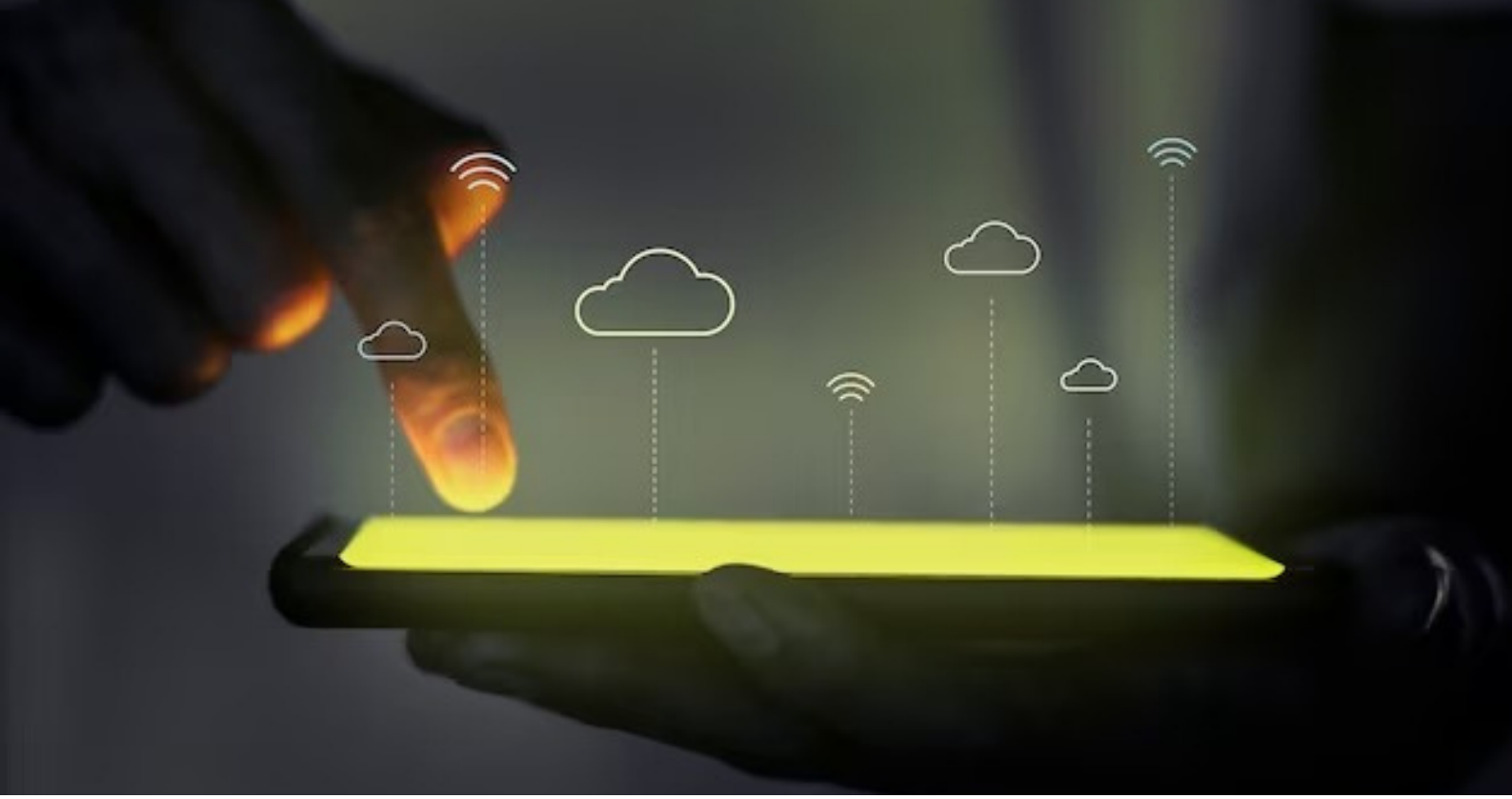
VIRAJE TECH

CLOUD DATABASE 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.

LEARNING PLAN

CLOUD DATABASE ENGINEER COURSE CONTENT

1.Introduction to Cloud Computing

1.1 Overview of cloud service models (IaaS, PaaS, SaaS)

1.2 Key cloud providers (AWS, Azure, Google Cloud, etc.)

1.3 Cloud deployment models (public, private, hybrid)

2.Database Fundamentals

2.1 Database concepts (relational, NoSQL, NewSQL)

2.2 Data modeling and design

2.3 Query languages (SQL, NoSQL query languages)

3.Cloud Database Services

3.1 Overview of cloud database services offered by major providers

3.2 Choosing the right database service for your application

4.Relational Databases in the Cloud

4.1 Setting up and configuring relational databases (e.g., MySQL,PostgreSQL) in the cloud

4.2 Data migration strategies 4.3 High availability and failover options

5.NoSQL Databases in the Cloud

5.1 Setting up and configuring NoSQL databases in the cloud

5.2 Data modeling for NoSQL databases

5.3 Scaling strategies

6.NewSQL Databases

6.1 Understanding NewSQL databases and their advantages 6.2 Use cases for NewSQL databases

6.3 Deployment and management in the cloud

7.Data Security and Compliance

7.1 Security best practices in the cloud

7.2 Encryption, access controls, and data masking

7.3 Compliance requirements (e.g., GDPR, HIPAA) and their impacton cloud databases

8.Database Monitoring and Optimization

8.1 Performance monitoring and profiling

8.2 Query optimization techniques

8.3 Scaling and resource allocation strategies

9.Backup and Disaster Recovery

9.1Implementing backup and recovery solutions in the cloud

9.2 Disaster recovery planning and testing

10.Serverless and Managed Database Services

10.1 Serverless database options

10.2 Benefits and limitations of managed database services

10.3 Hands-on experience with managed services

11.DevOps and Automation

11.1 Infrastructure as code (IaC) and automation tools

11.2 CI/CD pipelines for database changes

11.3 Version control for database schemas and configurations

12.Case Studies and Projects

12.1 Real-world case studies of organizations successfully using clouddatabases

12.2 Hands-on projects involving the setup,management, andoptimization of cloud databases

13.Cloud Database Trends and Emerging Technologies

13.1 Exploration of emerging trends such as multi-cloud databases, serverless databases, and blockchain-based databases.

14.Final Project

14.1 A comprehensive project that involves designing, deploying, andoptimizing a database in a cloud environment.

15.Certification Preparation (Optional)

15.1Preparation for cloud database certification exams offered by cloudproviders like AWS, Azure, and Google Cloud**.**

READY TO ADVANCE YOUR CAREER?

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