90-Day Cloud Architect Training & Internship Syllabus

Price 11,999.00

Phase 1: Foundations & Core Concepts (Day 1–30)

Week 1: Introduction to Cloud Computing

- *What is Cloud Computing?*
- *Cloud service models: IaaS, PaaS, SaaS*
- *Deployment models: Public, Private, Hybrid, Community*
- *Key providers overview: AWS, Azure, Google Cloud*

Week 2: Core Cloud Services

- *Compute (EC2, Azure VM, GCE)*
- *Storage (S3, Blob Storage, GCS)*
- *Networking basics (VPC, Subnets, Firewalls, Load Balancers)*
- *Databases in the cloud (RDS, Cloud SQL, Cosmos DB)*

Week 3: Identity, Access, and Security

- *IAM roles and policies (AWS IAM / Azure AD / GCP IAM)*
- *Encryption (at rest, in transit)*
- *Key Management Services (KMS)*
- *Shared responsibility model*

Week 4: Monitoring & Cost Management

- *CloudWatch / Azure Monitor / Stackdriver*
- *Billing and pricing calculators*
- *Budgets and cost optimization*
- *Tagging and resource grouping*

Phase 2: Architecture & DevOps Tools (Day 31–60)

Week 5: Designing Scalable & Reliable Architectures

- *Multi-tier architectures*
- *Auto-scaling, Load Balancing*

- *High Availability vs Fault Tolerance*

- *Backup and Disaster Recovery strategies*

Week 6: Infrastructure as Code (IaC)

- *Introduction to IaC*

- *Terraform basics and hands-on*

- *AWS CloudFormation / Azure Resource Manager (ARM)*

- *Version control integration (Git, GitHub)*

Week 7: Containers & Orchestration

- *Docker fundamentals*

- *Kubernetes (EKS, AKS, GKE)*

- *CI/CD pipelines (Jenkins, GitHub Actions)*

- *Deployment strategies (Blue/Green, Rolling)*

Week 8: Cloud Native & Serverless

- *Serverless architecture concepts*

- *AWS Lambda / Azure Functions / Google Cloud Functions*

- *Event-driven architecture*

- *API Gateways and EventBridge / PubSub*

Phase 3: Internship / Project-Based Learning (Day 61–90)

Weeks 9–13: Live Projects & Mentorship

- *Work on real-world cloud architecture designs*

- *Build and deploy full-scale cloud infrastructure (web app, DB, storage, monitoring)*

- *Prepare architecture diagrams using Lucidchart / Draw.io*

- *Weekly reviews with mentor*

Final Week:

- *Final project presentation (cloud design + deployment)*

- *Troubleshooting and optimization demo*

- *Resume polishing with cloud-specific skills*

- *Mock interview & Q&A session (technical + scenario-based)*

- *Certification of completion*