AVERIXIS SOLUTIONS

CLOUD COMPUTING

MENTORSHIP PROGRAM WITH INTEGRATED LCNC

OUR EXPERT MENTOR PANEL FROM

Microsoft | Google | Adobe | Uber | TECH mahindra | JCB

Starting Point For Your Career Path

Our Mission & Vision

We help undergrad and post grad students struggling to get industrial experience with our Industry Grade Mentorship programs wich help them to become corporate-ready individuals and possess the skillset to take on any challenges without any self-doubt.

Mission

To transform the way people learn and develop their skills by providing a dynamic and immersive upskilling platform that delivers hands-on learning and practical industry experience, empowering learners to achieve their full potential and thrive in the rapidly changing world of work.

Vision

To be the leading provider of hands-on upskilling solutions that connect students with the best industry experts and provide them with real-world industry projects to prepare them for success in their chosen careers.

Why Averixis Adopted LCNC(Low Code No Code)

Freshers, college students and the people with no coding knowledge can now build apps, websites on their own with the help of LCNC.This feature helps you discover the uncovered areas and boost your confidence even if you dont have any coding knowledge.

Feed your creativity hunger and come up with a faster and the most effective project completion ways with

India's No. 1 LCNC integrated curriculum.

Why Startups are Betting Big on Low-Code/No-Code

BY: SAQIB JAN on february 2, 2024

It is exhaustive — from infrastructure to app delivery, from data to applications — to modernize your practices, processes and providers to ensure you have the underlying foundation to take advantage of whatever comes next.

Two or three years ago, apps created through low-code/no-code platforms were not usually as detailed under the surface as software developed from scratch, yet they sufficed for certain purposes. There was even a clear distinction between software developers and everyone else out of necessity because software development was incredibly difficult to master.

But now, as we head towards more advanced AI, the SaaS-based low-code/no-code (LCNC) platforms empower businesses to create software exponentially faster and cheaper than a code-based approach.

PUBLISHED IN DevOps.com

Building No- and Low-Code Tools into Your Workflow

BY: Nick Kolakowski on Jun 6, 2024

The idea of "citizen developers" with little coding experience using no- and low-code platforms to build apps isn't a new concept; for many years, companies like Microsoft have released tools designed to empower pretty much anyone to produce mobile apps, games, and more.

While the idea of democratizing app-building is appealing to many, IT specialists and cybersecurity experts have long feared the not-so-controlled chaos that no- and low-code platforms could unleash within an organization with no guardrails in place.

The advent of generative A.I. may only heighten these fears, especially if employees rely on A.I. tools from outside their company's sanctioned tech stack to build things (a trend cheekily known as 'Bring Your Own Artificial Intelligence,' or BYOAI).

But the fact is, no- and low-code tools will likely become more powerful in the years ahead, and

PUBLISHED IN Dice

MONTH 01

WEEK 01

DAY 01

- Introduction to Cloud Computing
- Overview of cloud computing
- Key benefits and challenges
- Cloud service models (IaaS, PaaS, SaaS)
- Deployment models (Public, Private, Hybrid, Multi-cloud)

DAY 02

- Cloud Service Providers
- Overview of major providers (AWS, Azure, Google Cloud)
- Comparing services and pricing models

DAY 03

- Setting Up Cloud Accounts
- Creating accounts on AWS, Azure, and Google Cloud
- Navigating the cloud dashboards

DAY 04

- Introduction to Virtualization and Containers
- Understanding virtualization
- Introduction to containers and Docker

DAY 05

- Building Your First Cloud Infrastructure
- Launching a virtual machine (VM)
- Setting up a simple web server on a VM

- **Live Project 1: Launching and Configuring a Virtu-al Machine**

WEEK 02

DAY 06

- Introduction to Cloud Storage
- Types of cloud storage (object, block, file)
- Using cloud storage services (Amazon S3, Azure Blob Storage, Google Cloud Storage)

DAY 07

- Managing Data in the Cloud
- Uploading, retrieving, and managing data
- Understanding storage classes and lifecycle policies

DAY 08

- Networking in the Cloud
- Basic networking concepts (VPC, subnets, security groups)
- Configuring network settings for cloud resources

DAY 09

- Introduction to Databases in the Cloud
- Types of cloud databases (SQL, NoSQL)
- Using managed database services (Amazon RDS, Azure SQL Database, Google Cloud SQL)

DAY 10

- Connecting Applications to Cloud Databases
- Setting up and configuring databases
- Connecting a web application to a cloud database

- Live Project 2: Configuring Cloud Storage and Databases

WEEK 03

DAY 11

- Introduction to Serverless Computing
- Understanding serverless architecture
- Benefits and use cases

DAY 12

- Building Serverless Applications
- Creating serverless functions (AWS Lambda, Azure Functions, Google Cloud Functions)
- Integrating serverless functions with other cloud services

DAY 13

- Event-Driven Architecture
- Understanding event-driven design
- Implementing event-driven workflows

DAY 14

- Introduction to Microservices
- Understanding microservices architecture
- Benefits and challenges

DAY 15

- Building and Deploying Microservices
- Creating microservices with Docker
- Deploying microservices on cloud platforms (Kubernetes, AWS ECS, Azure AKS)

- **Live Project 3: Building and Deploying Serverless Applications**

WEEK 04

DAY 16

- Cloud Security Fundamentals
- Understanding security in the cloud
- Best practices for cloud security

DAY 17

- Identity and Access Management (IAM)
- Managing users and permissions
- Configuring IAM policies and roles

DAY 18

- Encryption and Data Protection
- Encrypting data at rest and in transit
- Using cloud provider encryption services

DAY 19

- Monitoring and Logging
- Setting up monitoring and logging for cloud resources
- Using cloud provider monitoring tools (AWS CloudWatch, Azure Monitor, Google Cloud Operations)

DAY 20

- Disaster Recovery and Backup
- Creating backup and disaster recovery plans
- Implementing automated backups and recovery processes

- **Live Project 4: Implementing Cloud Security and Monitoring**

MONTH 02

WEEK 05

DAY 21

- Introduction to DevOps and Cloud Automation
- Understanding DevOps principles
- Importance of automation in cloud environments

DAY 22

- Infrastructure as Code (IaC)
- Overview of IaC tools (Terraform, CloudFormation, ARM templates)
- Writing and deploying infrastructure as code

DAY 23

- Continuous Integration and Continuous Deployment (CI/CD)
- Setting up CI/CD pipelines
- Using cloud-based CI/CD tools (AWS CodePipeline, Azure DevOps, Google Cloud Build)

DAY 24

- Automating Cloud Deployments
- Creating automated deployment scripts
- Using automation tools (Ansible, Chef, Puppet)

DAY 25

- Case Study: Implementing DevOps in the Cloud
- Real-world examples of cloud DevOps
- Best practices and lessons learned

- Live Project 5: Automating Infrastructure and Deployments with IaC

WEEK 06

DAY 26

- Introduction to Big Data and Analytics in the Cloud
- Overview of big data concepts
- Cloud-based big data services (AWS EMR, Azure HDInsight, Google BigQuery)

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DAY 28

- Real-Time Data Processing
- Introduction to real-time data processing
- Using cloud-based real-time processing services (AWS Kinesis, Azure Stream Analytics, Google

DAY 29

- Machine Learning and AI in the Cloud
- Overview of cloud-based ML and AI services (AWS SageMaker, Azure ML, Google AI Platform)
- Building and deploying ML models in the cloud

DAY 30

- Case Study: Big Data and AI Projects in the Cloud
- Real-world examples of big data and AI projects
- Best practices and lessons learned

- **Live Project 6: Implementing a Big Data Pipeline in the Cloud**

WEEK 07

DAY 31

- Introduction to Generative AI in Cloud Computing
- Overview of generative AI concepts
- Applications of generative AI in cloud computing

DAY 32

- Using Generative AI for Data Augmentation
- Techniques for data augmentation
- Creating synthetic data with generative models

DAY 33

- Generative AI for Automated Cloud Operations
- Using AI to automate cloud management tasks
- Implementing AI-driven cloud operations

DAY 34

- Generative AI for Cloud Security
- Enhancing cloud security with AI
- Implementing AI-based threat detection and response

DAY 35

- Outcome-Driven Project with Generative AI
- Developing a complete project using generative AI
- Showcasing the final project

- **Live Project 7: AI-Driven Cloud Management and Security**

WEEK 08

DAY 36

- Introduction to No-Code Cloud Solutions
- Overview of no-code cloud platforms (e.g., OutSystems, Mendix)
- Setting up a no-code development environment

DAY 37

- Building Your First No-Code Cloud Application
- Creating a simple cloud app using a no-code platform
- Understanding no-code project structure

DAY 38

- Customizing No-Code Cloud Applications
- Adding custom functionality
- Integrating APIs and external services

DAY 39

- Deploying No-Code Cloud Applications
- Preparing your no-code app for deployment
- Submitting your app to the cloud provider

DAY 40

- Outcome-Driven Project with No-Code Tools
- Developing a complete cloud application using no-code tools
- Showcasing the final project

- **Live Project 8: No-Code Cloud Application Development**

Our Alumni Work At

Get a personal instructor who is dedicated to you in each and every step of your project.

Stuck at a point?

Doubts?

Need assistance?

We have got you covered.

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