



AWS Job Oriented Program

Become a Multi-Skilled AWS Professional and Land High Paying Jobs at Top Companies



Partners



Table of Contents

About K21Academy	03
Meet your Mentor	04
About this Program	05
Course Curriculum	06
Curated Projects (AWS Cloud)	14
Sample Theory / Hands-on Video & Activity Guide	17
LinkedIn Profile Optimization	18
Mock Interview	19
Features & Perks	20
Who is this Program for?	22
Success Stories	24
Testimonials	26
Our Happy Customers	28
Fee Structure	29
Register for a Free Career Counseling Call	30



About K21Academy

K21 Academy Founded by Mr. Atul Kumar, an experienced Multi-Cloud & DevOps expert, and author, we have partnered with industry leaders like Oracle (Training Partner) and Microsoft (Silver Partner).

We offer online courses on AWS, Azure, Oracle, Google, DevOps, and Kubernetes with top-notch study material.

Our study materials are comprehensive and up-to-date, covering everything you need to know about Cloud and DevOps technologies.

With over 12,000 individuals already benefiting from our training and securing higher-paying jobs, our community of over 150,000 social media followers trusts us to guide them in their careers.

Our team consists of highly skilled Azure/AWS/Google/Oracle Cloud Engineers, DevOps & Kubernetes Experts, Python & Data on Cloud Architects, and Apps DBAs/DBAs Architects who possess extensive knowledge and expertise in Cloud & DevOps technologies.

Curious to know more about us? Visit our website today www.k21academy.com



Meet your Mentor



You will be mentored by Atul Kumar, the founder of K21 Academy, and his team of MultiCloud experts. Atul has over 20 years of experience in the IT industry.

He began his IT career in 2000 as an Oracle DBA/Apps DBA. The first few years were tough for him, with very little growth. However, in 2005, he transitioned to Oracle Security & IAM, and his career took off. He had a great run for the next 5-6 years, with a lot of growth and opportunity.

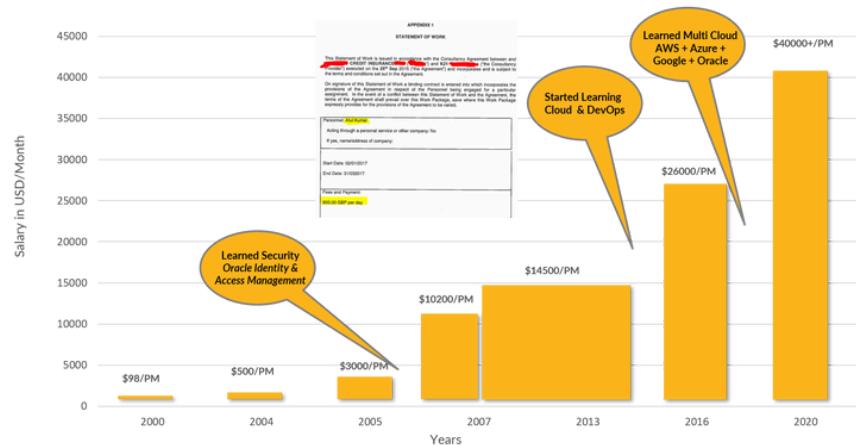
However, around 2012-13, he started to feel stuck. He wasn't learning anything new,

wasn't growing, and wasn't being challenged. At that time, the Cloud was gaining popularity, and Containers (Docker) were emerging, offering many higher-paying job opportunities in those fields.

So, he decided to make a change in his career path and transitioned from working on On-premises (Security, Infrastructure & Databases) to focusing on Cloud & DevOps. Over the next 2 years, he learned about important Cloud platforms like AWS, Azure & Oracle, as well as DevOps. He kept up with the new Cloud-based tools & technologies such as Google Cloud, Docker, Kubernetes, Terraform, Ansible, CI/CD, Jenkins, etc.

Learning Cloud & DevOps gave him the opportunity to work with some of the world's biggest and most prestigious clients such as Toyota, Royal Bank of Scotland, Worldpay, Scottish Government, NHS (United Kingdom), Saudi Railways, datAvail, Tuscan Electric (USA), Oracle, and more.

Atul's Mid-Career Crisis



About the Program

The AWS Job Oriented Program is a comprehensive training program that will teach you the skills you need for a variety of AWS Cloud roles. This program is designed to help you prepare for your dream job in the AWS Cloud industry.

We will cover the most in-demand industry projects and hands-on labs, and we will help you with your CV, LinkedIn, and job interview preparation.

You will have the opportunity to gain hands-on experience with AWS technologies by working on projects under the one-on-one guidance of experienced AWS experts.

In this comprehensive program, you will acquire the skills required for various AWS Cloud roles, including AWS Architect/Engineer, DevOps Engineer, Developer, Administrator, and more. This program will prepare you for all AWS Cloud roles in one go.

Also, you can choose any one certification from our list, and we will provide you with the necessary study materials and exam preparation kit so you can pass it. This will give you a significant advantage when you start applying for jobs.

Our team of AWS experts will be there to support you every step of the way, helping you to master the skills you need for your dream job. We are here to help you succeed, and we will do everything we can to make sure you get your dream higher-paying job.

To learn more about the AWS Job Oriented Program and to enrol, schedule a free call today.



Course Curriculum



Learning Path



AWS Job Oriented Program Course Outline

MODULE

1

Introduction to Cloud & AWS

- Cloud Service Models
- Cloud Deployment Models
- AWS Introduction
- AWS Global Infrastructure
- AWS Region Availability Zones
- AWS Services



Hands-on-Lab

- Create AWS Free Trial Account
- CloudWatch - Create Billing Alarm
- Create & Connect to Windows EC2 Machine
- Create & Connect to Linux EC2 Machine

2

Identity & Access Management (IAM)



- IAM User, Groups, Roles
- IAM Policies
- Best Practices of IAM
- Multi-Factor Authentication

Hands-on-Lab

- Create AWS IAM User, Group, Roles, Policies
- Enable Multi-Factor Authentication
- IAM Power User

3

AWS Storage Services



- Different Storage types on AWS
- Simple Storage Service
- Elastic File System
- Storage Gateways
- Elastic Block Storage

4

Hands-on-Lab

- Create S3 Bucket, Upload & Access Files
- Host Website on S3 Bucket
- S3 Cross Region Replication
- S3 Lifecycle Policies
- Create & Mount EFS on EC2 Instances
- Create & Manage EBS Volumes & Snapshots
- Attach & Mount EBS Volume to EC2



AWS Elastic Compute Cloud (EC2)

- Compute with EC2
- Amazon Machine Image (AMI)
- Hardware Tendency Shared vs Dedicated
- Instance Storage
- Load Balancers
- Application vs Network
- Autoscaling

Hands-on-Lab

- Host Website on Windows EC2 Instance
- Using IIS Configure Apache Webserver on Linux EC2
- Network Load Balancer
- Configure a Load Balancer & Autoscaling on EC2 Instances
- Create Launch Template for Auto Scaling Group

5

AWS Networking Services



- Virtual Private Cloud (VPC)
- Subnets, Internet gateway, Route
- NACL, Security Groups
- VPC Peering and Transit Gateway
- VPN
- Direct Connect
- Route53

Hands-on-Lab

- Create Custom Virtual Private Cloud
- Work with VPC Peering Connection
- AWS Elastic IP
- Establish a Client-Side VPN

6

AWS Monitoring Services



- CloudWatch
- CloudTrail
- X-Ray
- Event bridge
- Config Management

Hands-on-Lab

- Configure AWS X-Ray to view Service Maps & Traces.
- Configure Amazon CloudWatch to Notify Change in EC2 CPU Utilization
- Enable CloudTrail and Store Logs in S3
- Setting Up AWS Config to Assess Audit & Evaluate AWS Resources

7

AWS Database Services



- Relational- RDS, Aurora
- Non-Relational- DynamoDB
- ElastiCache
- Memchache & Redis
- Redshift
- Glue

Hands-on-Lab

- Create & Query with Amazon DynamoDB
- Configure a MySQL DB Instance via RDS
- Create A Redis Cache & Connect It to EC2 Instance
- Amazon Athena
- Configure AWS Glue to Run Crawler on S3 Bucket

8

Serverless & Analytic Services



- Simple Email Service
- Simple Notification Service
- Simple Queue Service
- Serverless Computing Lambda
- API-Gateway
- Kinesis

Hands-on-Lab

- Visualize Web Traffic Using Kinesis Data Streams
- Send An E-mail Through AWS SES
- Event-Driven Architectures Using AWS Lambda, SES, SNS and SQS
- Build API Gateway with Lambda Integration

9

Automation & Configuration Management

- CloudFormation
- Elastic Beanstalk
- AWS CLI, AWS SDK
- AWS System Manager



Hands-on-Lab

- Create Stacks using CloudFormation
- Create S3 Bucket Using CloudFormation
- Create & Configure EC2 with Helper-Scripts
- Deploy App in Beanstalk Using Docker
- Immutable Deployment on Beanstalk
- Blue-Green Deployments Using Beanstalk
- Configure AWS Serverless Application Model

10

AWS Security Services



- AWS Web Application Firewall (WAF)
- AWS GuardDuty
- AWS Inspector
- AWS Key Management Service (KMS)
- Trusted Advisor

Hands-on-Lab

- AWS KMS Create & Use
- Block Web Traffic with WAF in AWS
- Amazon Inspector

11

HA, DR & Miscellaneous Services



- Multi-account strategies
- AWS Control Tower
- VMware Cloud on AWS
- AWS Outpost
- AWS Local Zone
- AWS Wavelength
- Disaster Recovery

12

AWS DevOps (CICD Tools & Pipeline)

- Principles and History of DevOps
- Codecommit
- CodeBuild
- CodeDeploy
- CodePipeline
- CodeStar
- CodeGuru



Hands-on-Lab

- Working with AWS CodeCommit
- Build Application with AWS CodeBuild
- Deploy Sample Application using AWS CodeDeploy
- Create a Simple Pipeline (CodePipeline)
- Build Application with AWS CodeStar

13

AWS Container Services



- Elastic Container Service
- Elastic Kubernetes Service
- ECS with CICD

Hands-on-Lab

- Create ECR, Install Docker, Create Image, and Push Image To ECR
- Create Task Definitions, Scheduling Tasks, Configuring Services and Cluster using EC2 Launch Types
- Create Elastic Kubernetes Service (EKS) Cluster on AWS

14

AWS Migration



- AWS Migration Strategy
- Application Migration
- Database Migration
- Data Migration
- Migrating Monolithic Application

Hands-on-Lab

- Application Migration to AWS
- Database Migration To AWS
- AWS Data Transfer Acceleration
- Migrating a monolithic application to AWS with Docker

15

CV Prep & Mock Interviews

- CV & LinkedIn Preparation
- Preparation for Interviews
- Individual/group Interviews
- GD for high level questions
- Feedback on students' improvement



Curated Projects (AWS)



1

Deploy 3 Tier Architecture (Web, App, Database)

The project entails creating a three-tier web application architecture: a user-centric Web Tier, a versatile App Tier for business logic, and a secure Data Tier for data management. This architecture ensures seamless communication, scalability, and data integrity. The goal is to deliver a responsive user experience with robust data security.

2

DevOps: Create end to end CI/CD Pipeline

This project involves creating a continuous delivery pipeline for an application that automates the entire software delivery process, from code changes to production deployment. It involves setting up a version control system and continuous integration, tools, and a deployment pipeline that automates the process of deploying new versions of the application.

3

Database Migration to AWS (Oracle to AWS)

This project involves migrating an on-premises Oracle database to AWS, leveraging Amazon RDS for Oracle or Amazon Aurora with PostgreSQL compatibility. The migration process includes planning, schema conversion, data migration, and performance tuning. Tools like AWS Schema Conversion Tool

(SCT) and AWS Database Migration Service (DMS) are used to automate and streamline the migration process. The goal is to ensure minimal downtime and data integrity while taking advantage of AWS's scalability, security and managed services.

4

Migration: On-Premises to Cloud (App, VM, Database, Data)

The AWS Cloud Migration Project entails migrating on-premises assets to AWS, with phases such as Discovery, Grouping, Server, and Database Migration. It prioritizes testing, optimization, security, and documentation, with the end result being a seamless, scalable, and cost-effective cloud environment. For success, careful planning and execution are required.

5

Migration: Monolithic App to Microservices

In this project, we will deploy a Node.js app as a monolith in a Docker container and later transition it seamlessly into microservices without downtime. Moving from monolithic to microservices is essential for scalability and maintenance. Microservices enable individual service scalability and independent updates, fostering flexibility and innovation in application development on AWS.

6

Security: SSL/TLS/Keys Certificate Management System

This project involves setting up and configuring SSL/TLS certificates using AWS Certificate Manager. SSL/TLS certificates are used to secure websites and ensure that all data transmitted between the website and its users is encrypted and secure.

7

Host Static Website on AWS using S3 & Route53

In this project, the goal is to host your portfolio website using an Amazon S3 bucket. Amazon S3 (Simple Storage Service) is a scalable and reliable cloud storage service offered by Amazon Web Services (AWS). By utilizing S3 to host your portfolio, you can ensure high availability and durability.

8

Host Dynamic Website on AWS: Apache, MariaDB, PHP

In this project, we will create a dynamic WordPress website on the AWS cloud platform by using the capabilities of a LAMP server and MySQL database. Achieve scalability and a robust online presence with this powerful combination.

9

Deploy API Gateway, Application & Database

This project deploys a basic web app on AWS Amplify for hosting static content, utilizes AWS Lambda for serverless functions, employs Amazon API Gateway to create a RESTful API, and stores data in Amazon DynamoDB with its schema-less, scalable architecture.

10

Deployment of Super Mario on Kubernetes using Terraform

This project focuses on deploying a containerized version of the Super Mario game application on a Kubernetes cluster using Terraform for infrastructure as code. The process includes defining the Kubernetes resources such as pods, services, and deployments in Terraform configuration files. Terraform scripts are used to provision the Kubernetes cluster, and Helm charts may be utilized for managing Kubernetes applications. The goal is to automate the deployment process, ensuring repeatability and consistency across different environments.

11

Deploy Netflix Clone Application on Kubernetes

This project involves deploying a Netflix clone application on a Kubernetes cluster. The Netflix clone is a microservices-based application that includes various components like user authentication, content streaming, and recommendation engine. Each component is containerized and deployed as a separate service in the Kubernetes cluster. The project includes setting up Kubernetes manifests for deployments, services, and ingress controllers. CI/CD pipelines may be implemented using tools like Jenkins or GitLab CI to automate the deployment process. The objective is to achieve scalability, high availability, and efficient resource management for the application.

12

Automate the Start/Stop of EC2 Instances using Lambda

This project automates the start and stop of EC2 instances using AWS Lambda functions. The automation aims to optimize costs by ensuring that EC2 instances are only running when needed. The project involves creating Lambda functions to start and stop EC2 instances based on predefined schedules or triggers. AWS CloudWatch Events is used to schedule the Lambda functions. The project ensures secure and efficient management of EC2 instances, leveraging IAM roles and policies to grant the necessary permissions to the Lambda functions.

Sample Theory / Hands-on Video & Activity Guide

Check the [AWS Elastic Compute \(EC2\) Blog](#) for a demo video of the theoretical topics covered in the live session. Also, you can check the sample video of our hands-on/activity guide, in which we have shown the in-depth steps to create and connect to an EC2 instance.

To download the Sample Activity Guide, refer to the bottom of the [Blog](#)

What Is Amazon EC2?



8 Steps To Create AWS Windows EC2 Instance



Download the Sample Guide



LinkedIn Profile Optimization

1. Professional Photo
2. Customized URL
3. Headline
4. Summary
5. Experience
6. Skills & Endorsements
7. Recommendations
8. Certifications
9. Projects
10. Education
11. Groups
12. Content Sharing
13. LinkedIn Learning



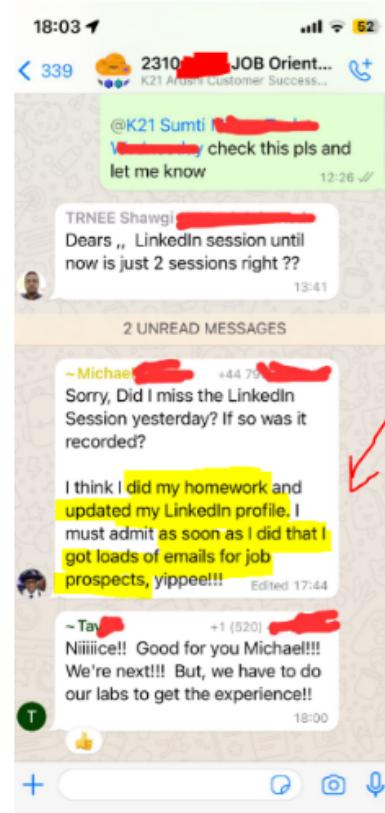
NEW: Having an amazing LinkedIn profile is super important these days, and we want to help you make sure yours stands out.

Our team of experts will work with you to make sure your LinkedIn profile is optimized and helps you showcase your skills and experience.

Some quick tips for optimizing your LinkedIn profile:

1. Use a cover photo that showcases your personality or work.
2. Highlight your top skills in your headline.
3. Use 'open to work' if you're open for new job opportunities.
4. Optimize your 'about' section with relevant keywords.

Result



Mock Interview



1. Technical Question:

- AWS Services and their use cases
- AWS Networking Concepts
- AWS Architecture Design

2. Scenario-Based Question:

- Migrate Application/Storage to AWS Cloud
- Troubleshooting AWS Issues
- Optimizing AWS Resources (Cost & Performance)

3. Conceptual Question:

- Benefits and challenges of Cloud Computing
- Disaster Recovery in AWS
- Databases in AWS

4. Practical Question:

- Create Virtual Private Cloud and Bastion Host
- Configure Simple CICD Pipeline
- Setup WordPress website on AWS

5. Behavioural Question:

- Team Collaboration and conflict resolution
- Problem-solving in high-pressure situations

6. Case Studies:

- Designing solution using AWS services
- Ensuring data security and compliance in AWS

Features and Perks



Live Interactive Sessions from AWS Experts

Learn from the best in the industry with live sessions from AWS experts. They will share their expert tips and tricks, and answer all of your questions.



Industry In-Demand Projects and Hands-on Labs

Get hands-on experience with industry in-demand projects and hands-on labs. This will give you the skills you need to succeed in the job market.



6 months unlimited retakes

You can rewatch the live sessions and retake the labs for up to 6 months after the program ends. This gives you plenty of time to learn and practice at your own pace.



6 months on-job support

Get help on your job work for 6 months after completing the program.



WhatsApp support & ticketing system

Get help from our team of experts via WhatsApp or our ticketing system. We are always available to answer your questions.



Mock Interviews

We'll also do **mock interviews** so you can practice.



Master Your Chosen Certification: Study Materials and Exam Prep for Success

You can **choose any one certification from our list**, and we'll provide you with the necessary study materials & exam preparation kit with multiple sample exam question set (**200+** questions with explanation to answers) focused on that certification so you can pass it.

- [AWS Cloud Practitioner](#)
- [AWS DevOps Engineer - Professional](#)
- [AWS Solution Architect Associate](#)



60-day Money-back Guarantee

If you don't get a job offer after completing all of the activity labs and projects, you can get a full refund. To qualify for a refund, you must provide proof that you have applied to at least 50 jobs (we will help you with the job search & application) and have not received an offer from any of them.

Who is this Program for?



The AWS Job Oriented Program is for anyone who wants to:

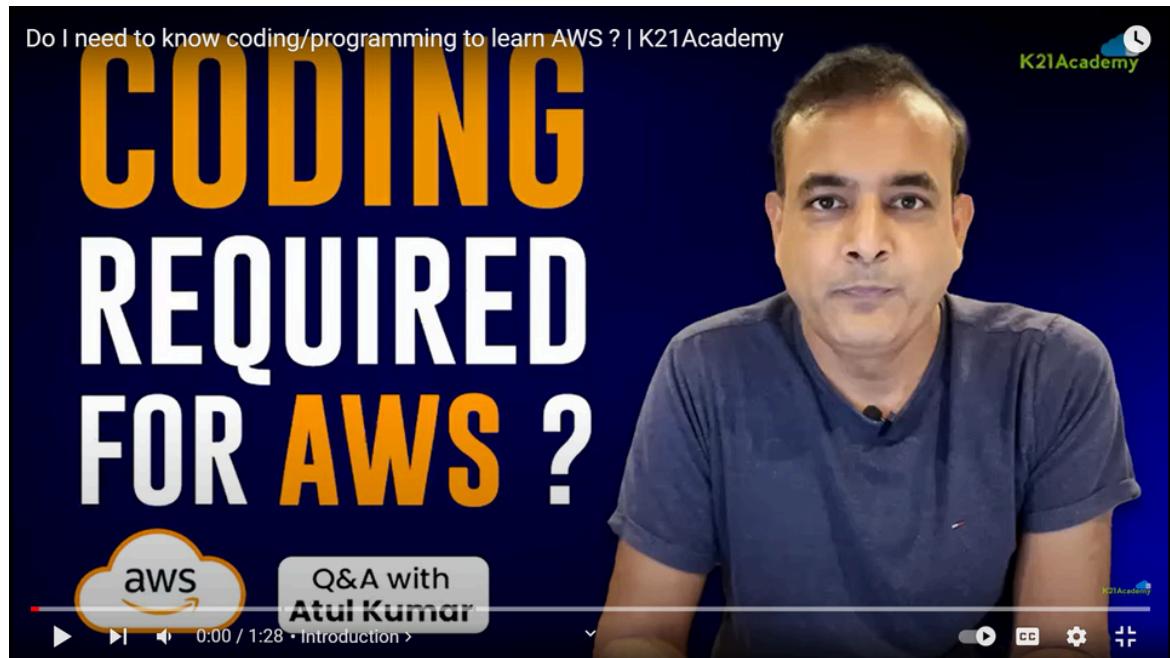
- Get a higher paying job in the AWS Cloud area
- Get industry-leading guidance from top experts
- Perform industry-demanded projects and add them to their CV
- Gain hands-on experience in AWS Cloud technologies

Specifically, the program is for:

- IT professionals working on-premise (Unix / Linux/ Windows, networks, storage, databases, VMware, testing, containers, Kubernetes, sysadmins, administrators, developers, support, operations, DevOps, architects, or technical managers)
- Those working on other Clouds like AWS, Azure, Google, Oracle, IBM, Alibaba, SAP, VMWare, OpenStack.
- Freshers or new to IT who want to build a career in high-paying IT Cloud jobs.
- Those who are feeling stuck in their IT career (not growing) or too busy (don't have enough time), or would like to stay on the latest in-demand technologies for higher-paid jobs.
- Those who understand that it takes investment to get to the next level.

Do I Need to Know Coding/Programming to Learn AWS?

To learn Amazon Web Service (AWS), you do not need any programming. Amazon does not require any prior expertise or understanding of programming. [CLICK HERE](#)



Testimonials

No IT Background to 2 Job Offers

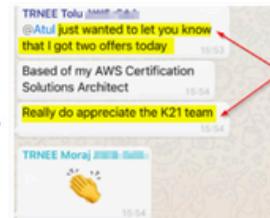
Tolu Daramola



Tolu Daramola • 1st

AWS Solutions Architect | Cloud Data...
Courtice, ON

1K followers



I was initially a bit hesitant to join K21Academy as I was moving to Cloud and desired to get new opportunities. I was new to Cloud & didn't even have any IT background. K21Team is commendable. I cleared the AWS certification and based on that I got 2 job offers. Thanks, Atul for the wonderful training.

Career Gap & Confused to working with BT

Meghana Batchu



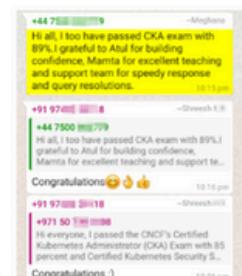
Meghana Batchu • 2nd

Specialist Design Engineer at BT
London Area, United Kingdom

in Experience: BT Group, Professional Training, and 4 more
2 mutual connections

Took career break and confused about how can start my career again with the latest technology, I learned DevOps & Multi-Cloud that helped me to re-start my Career in IT after Gap.

I was able to learn all things step by step and as new things are coming, I am enjoying new learnings everyday.



Not feeling confident

Gargi Agrawal



Gargi Agrawal • 1st

DevOps| SecOps | CKA | CKS
Bengaluru

in Experience: Standard Chartered Bank, Dover Fueling Solutions, and 5 more

In the beginning, I was not confident whether I would be able to prepare myself, but the K21 team made it very easy. I enrolled myself in K21Academy training program for higher paid job. I passed certification on my first attempt, and I am very thankful to the team. The service provided from registration to training is very excellent and they helped me for the interviews too. After attending the session I got the job offer. Thanks, Atul for motivating me for my career.

No Interviews to Highly Paid Job

Joby Sam



Joby Sam • 3rd+

A competent leader with over 16 years of experience in handling ...

Adelaide, SA

 Experience: G'day Group, Gulf Cryo, and 5 more

I move to Australia and was struggling to get Job. Atul prepared me on how to prepare resume & interviews with right attitude. I then started getting back 2 back interview. This resulted in Job offer with in 2 weeks



Cleared Six Interviews

Yashovardhan

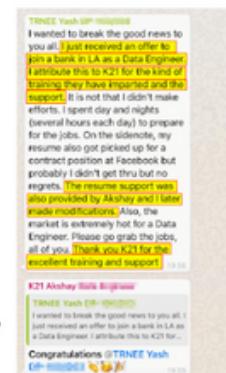


Yashovardhan Mopur • 2nd

Senior Data Engineer
Burbank, CA

 Experience: Birasoft, IBM Global Services, and 6 more

Honestly, I was impressed by the presentation put forward by Atul and his team, and that made me confident and determined. The Hands-on Labs provided by K21Academy gave me more confidence and practice, and I must tell you that everything is perfectly covered in the labs. I could easily "Clear SIX Interviews" after I took this course. I love how systematically K21Academy works, and I would recommend it to everyone!



Success Stories



Warrenⁱⁿ

AWS Certified Solutions Architect Associate | SAA-C02

I was working as a network engineer for a while that's when my interest in AWS started; while researching online, I came across a few platforms; that's when I discovered K21Academy, I watched a few videos before confirming my decision to take up [SAA-C02] AWS Certified Solutions Architect Associate. My experience with K21Academy was very positive; the trainers and the team members are very skilled. Having a tutelage of a skilled trainer helped me keep accountability and structure to the learning process.



Sanjayⁱⁿ

AWS Certified Solutions Architect | SAA-C02

Working as an IT professional, one always needs to be updated with the latest technological changes. After having a few years of experience, I decided to upgrade myself. My company manager suggested to me the K21Academy study for [SAA-C02] AWS Certified Solutions Architect Associate. I had a fantastic experience with K21Academy; the study material is perfectly curated, the trainers are skilled, and the support staff is quick to answer.



Rajivⁱⁿ

AWS- Solutions Architect Associate | AWS-SA

*I attended K21Academy's AWS-Solutions Architect Associate [AWS-SA] Masterclass to get a brief idea about their course curriculum. Well, I was astonished by the perks provided by K21Academy – Expertly curated lectures, Lifetime Access to the Portal, On-Job Support, and their 24*7 WhatsApp group for all your doubts & queries. It impressed me, and then I enrolled for the AWS SA course and went through the videos.*



Ellis Kofi Aloryi

AWS Certified Solutions Architect | SAA-C02

I did not have any IT background, but I was looking for some platform to upskill myself, considering the time I had in hand due to lockdown. That's when I came across K21Academy's free MASTERCLASS for various Cloud programs, and I decided to sign up for the same. After attending the Masterclass, I was impressed with the perks provided by K21Academy and I immediately signed up with K21Academy for [SAA-C02] AWS Certified Solutions Architect Associate.



Ronald McCoy

Technical Support Analyst | Sec+, Net+, A+, CSIS, CIOS

I was looking for the training so I can handle my client project. I was happy to attend the live session and from the instructor and with the help of the labs and team support, I was able to complete the project.



Khalid Ghumman

Database Architect | Aspiring Cloud Architect

3 months ago when he was planning to join this program, even having lot of other certifications and experience in DBA he had no clear road map or objective for upcoming time. Now he said "Today not only I'm feeling focused but have a goal and moving towards that even with moderate speed but no issue".

Our Happy Customers



Witness the triumph of our esteemed customers as they embark on remarkable career journeys, securing coveted roles within renowned companies. Their success stories stand as a testament to the transformative power of our educational programs, providing the skills and knowledge needed to thrive in today's competitive job market. Join our community of achievers and unlock your path to professional excellence, paving the way for a future filled with boundless opportunities and personal growth.

FEE STRUCTURE



4 Monthly Installments

Live Sessions + Support

\$897 x 4 only

Get Immediate Access to
Training Material & Support

ENROLL NOW



Single Payment

Live Sessions + Support

\$2997 only

Get Immediate Access to
Training Material & Support

ENROLL NOW



#CREATEIMPACT

THANK YOU

www.k21academy.com

Need more insights?

Speak with our Career Counsellor for a detailed overview of AWS Job Oriented Program.

[Schedule a Call](#) 