



# SharpSkilled

Upskilling the AI Generation

# Cloud Computing & DevOps

## Job Assistance Bootcamp



Microsoft  
Azure



DevOps



Linux





## About Cloud Computing and Devops

**Embark on a transformative journey with SharpSkilled's Cloud Computing & DevOps Program. Gain expertise in AWS, Azure, and DevOps tools through hands-on training. Our program ensures you're well-prepared for real-world challenges, offering the perfect blend of theory and practice. Advance your career with us today! Join now for success in cloud computing and DevOps.**



**Learning Format**  
Live Online



**Live Classes**  
16 Weeks



**100%**  
Job Assistance



**Career Guide**  
By Experts



# SharpSkilled

## Upskilling the AI Generation

### About us

**SharpSkilled, established in 2022, pioneers comprehensive upskilling solutions in the IT sector. Focused on empowering the AI generation, it offers diverse courses tailored to industry demands. Leveraging cutting-edge tech and industry expertise, SharpSkilled provides practical, hands-on training and mentorship, preparing learners for real-world challenges. Aligned with the Upskilling India initiative, it fosters continuous learning and professional growth. Through strategic partnerships with top IT firms, SharpSkilled not only develops skills but also creates pathways to meaningful employment. Beyond a training institution, SharpSkilled serves as a catalyst for personal and professional advancement, shaping a future where individuals excel in IT.**



# Program Highlights



## **Industry-Relevant & Updated Syllabus**

Learn the industry's latest tools, techniques & trends. Gain hands-on experience developing various apps.



## **360 Degree Knowledge Building**

Develop practical skills through real-world projects and assignments



## **1:1 Dedicated Mentorship**

Personalized learning experience from experienced industry professionals.



## **Multiple Career Opportunities**

We don't just educate; we guide you towards your career goals with our dedicated placement pool.

## **Talk to our counsellor**

- Curriculum Insights
- Post-Program Support
- PayAfter Placement
- Career Prospects Exploration

**Inquire Now**



# Program Details

## COURSE PREREQUISITE

Basic understanding of IT and software with foundational knowledge in networking is required

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## PROGRAM ELIGIBILITY

- ✓ **IT Professionals:** Ideal for IT administrators, system admins, network engineers looking to upgrade their skills.
  - ✓ **Software Developers:** Beneficial for developers aiming to specialize in DevOps practices and cloud solutions.
  - ✓ **Career Changers:** Open to professionals from different backgrounds seeking to transition into the IT and cloud domain.
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## KEY FEATURES

- ✓ Practical exercises, real-world projects, and lab sessions using tools like AWS, Azure, Kubernetes, Docker, and Jenkins.
  - ✓ Dedicated Placement Cell | 100% Guaranteed Interview calls
  - ✓ Globally Recognised **Certification from Microsoft**
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## JOB ROLES TO TARGET

Cloud Engineer  
DevOps Engineer  
Site Reliability Engineer (SRE)  
System Administrator

Cloud Architect  
Automation Engineer  
Infrastructure Engineer  
Cloud Security Specialist

# Real time projects

"At SharpSkilled, we believe in learning by doing. That's why our programs feature real-time projects and capstone projects, providing hands-on experience that prepares you for the challenges of the IT industry. Get ready to apply your skills in practical scenarios and showcase your expertise with confidence. Join us and turn theory into tangible results!"

**450+**

**Hiring  
Partners**



**Trusted  
Learners**



**Capstone  
Project**



**1-1 Doubt Session**



# 2 Career Service PRO



## Get Job and Placement support

Unleash your career potential with unlimited job access, interview support, and profile review.

## 4 Mock Interviews with Industry Experts

Master the art of cloud computing, devops and stay ahead of the curve with mockups and industry insights



## Resume Building Session

Craft a powerful resume showcasing your expertise in software development to stand out from the competition

## 1:1 LinkedIn Review Session

Get 1-on-1 sessions with experts for a better understanding of LinkedIn profile reviews and cover letter.



## Dedicated Placement Cell

Receive unlimited interview calls from a diverse pool of interested employers/recruiters until you successfully secure a job

# 3 Industry Certification



World's leading certifications



**SharpSkilled**

Upskilling the AI Generation

## ICourse Completion Certificate

Complete your training with the recognized certificate.



## Microsoft Azure Certificate

Achieve professional growth & increase earning potential with Microsoft Azure certification

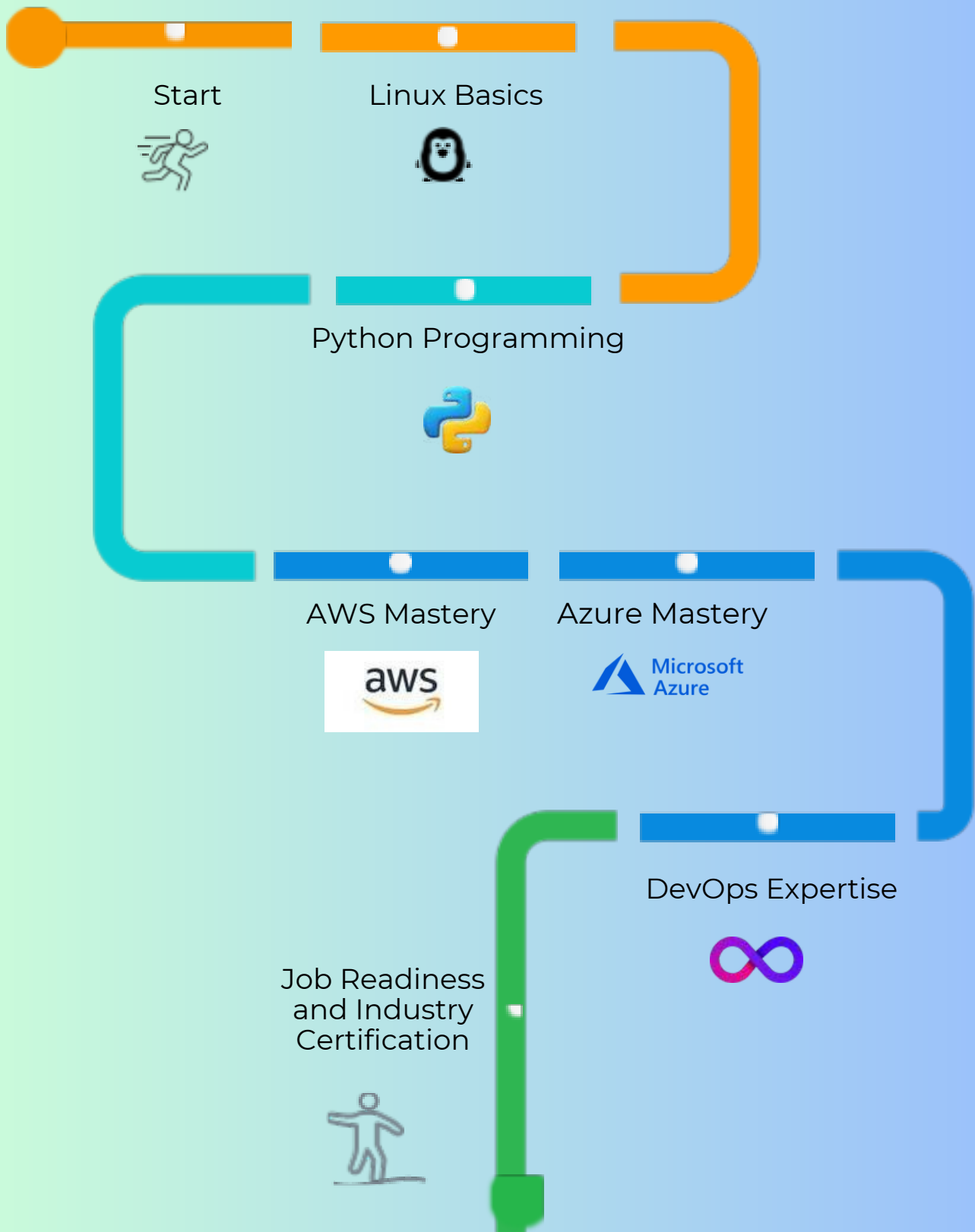


## IBM Capstone Project Certificate

Highlight your skills & boost your project portfolio with capstone project certificate



# Route of Skills



# Tools Covered



Azure  
Security Center



amazon  
DynamoDB



Amazon ECS



Amazon EFS



CloudFormation



Amazon  
EC2



Jenkins



Amazon ELB



Amazon  
CloudWatch



AWS IAM



docker



Elastic  
Beanstalk



Azure Cosmos DB



kubernetes



GitLab









Amazon Glue



Amazon S3

# Others Vs SharpSkilled

Benefits		SharpSkilled	Others
	Guaranteed Interview Calls	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Industry capstone project certificate from IBM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Domain specialized programs for professionals	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	100% live interactive sessions with industry experts	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	On-demand video call with industry experts	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Personalised Resume Review Session	<input checked="" type="checkbox"/>	<input type="checkbox"/>

# Program Fee



**Enrollment Fee**

**Rs. 6,000**

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**Pay After  
Placement**

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**Program Fee**

**Rs. 36,000**





### Linux Fundamentals and Introduction

10 Hours

#### Linux Basics and System Administration

- Introduction to Linux Operating System
- Command Line Interface (CLI) Essentials
- User and Group Management
- Networking Basics in Linux

#### Practical exercises and assignments for mastering Linux commands

- Command Line Mastery: Exercises focusing on everyday CLI usage
- Script Writing: Basics of Shell Scripting for Automation
- System Administration Tasks: Setting up a Web Server, Creating Cron Jobs

Tools covered



**LINUX**





### Python Programming Essentials

18 Hours

#### Introduction to Python and Environment Setup

- Basics of Python Programming Language
- Setting Up Python Development Environment
- IDE Setup and Introduction (PyCharm, Jupyter Notebook)

#### Python Programming Foundations

- Data Types, Variables, and Basic Operators
- Control Structures: If-Else Statements, Loops
- Functions: Definition, Arguments, Return Values

Tools covered



jupyter



PyCharm

#### Data Handling and Structures

- Lists, Tuples, Dictionaries, and Sets
- String Manipulation and Regular Expressions
- File Operations: Reading and Writing Files

***Real time project will be covered after Python completion .***

### AWS Cloud Mastery

35 Hours

#### AWS Administration Level

##### Introduction to AWS

- AWS Services Overview
- Setting Up AWS Accounts
- AWS Management Console

##### AWS Storage Services

- S3 (Simple Storage Service)
- EBS (Elastic Block Store)
- Glacier
- Storage Gateway
- Amazon FSx (Fully Managed File Storage)

##### Networking and Content Delivery

- VPC (Virtual Private Cloud)
- CloudFront
- Route 53
- API Gateway
- AWS Direct Connect

##### Monitoring and Management

- CloudWatch
- CloudTrail
- AWS Config
- AWS Trusted Advisor

##### AWS Compute Services

- EC2 (Elastic Compute Cloud)
- AWS Lambda
- Elastic Beanstalk
- Lightsail
- Amazon ECS
- EKS (Elastic Kubernetes Service)

##### AWS Database Services

- RDS (Relational Database Service)
- DynamoDB
- Redshift
- ElastiCache
- Amazon Aurora

##### Automation and Optimization

- AWS CLI (Command Line Interface)
- CloudFormation
- Systems Manager
- AWS Elastic Beanstalk for Deployment Automation

### AWS Cloud Mastery

#### Transitioning to Solution Architect

##### Architecting on AWS

- Designing Systems (Availability, Cost-Efficiency, Fault-Tolerance, Scalability)
- Decoupling Mechanisms and Scalable Design
- Choosing Appropriate AWS Services

##### Advanced Networking

- VPC Design and Implementation
- Advanced Security and Networking Best Practices

##### Data Security

- Data Encryption Methods
- Compliance and Governance

##### High Availability and Business Continuity

- Disaster Recovery Strategies
- High Availability Approaches

##### Cost Optimization

- Cost-Effective Resource Utilization
- Monitoring and Optimization Techniques

##### Migration and Innovation

- Migration Strategies to AWS
- Leveraging AWS for Innovation

##### Designing for New Technologies

- IoT (Internet of Things) Solutions
- Machine Learning Implementations
- Serverless Architectures



### Microsoft Azure Proficiency

50 Hours

#### Azure Administration Level

##### Introduction to Azure

- Overview of Azure Services
- Setting Up Azure Accounts
- Azure Portal and Azure CLI

##### Azure Storage Solutions

- Blob Storage
- Azure Files
- Queue Storage
- Disk Storage
- Azure Data Lake Storage for Big Data Analytics

##### Identity and Access Management

- Azure Active Directory
- Role-Based Access Control (RBAC)
- Multi-Factor Authentication
- Azure AD Connect

##### Security and Compliance

- Azure Security Center
- Key Vault
- Azure Policy
- Azure Blueprints

##### Azure Compute Services

- Azure Virtual Machines
- Azure Kubernetes Service (AKS)
- Azure Functions
- App Services
- Azure Container Instances for Container Deployments

##### Azure Networking

- Virtual Networks (VNet)
- Load Balancers
- VPN Gateway
- Azure DNS
- Azure ExpressRoute for Private Connectivity

##### Database Services

- Azure SQL Database
- Cosmos DB
- Azure Database for MySQL
- Azure Database for PostgreSQL
- Azure Synapse Analytics for Big Data and Analytics

##### Monitoring and Management

- Azure Monitor
- Azure Log Analytics
- Azure Automation
- Azure Backup and Site Recovery



### Microsoft Azure Proficiency

#### Transitioning to Solution Architect

##### Architecting Solutions on Azure

- Designing Infrastructure Solutions
- Designing for Security and Identity
- Designing Data Platform Solutions
- Designing Business Continuity

##### Advanced Networking

- Network Architecture and Strategies
- Azure Application Gateway
- Network Security Groups

##### Data and Databases

- Advanced Database Management
- Big Data and Analytics Solutions
- Data Migration Strategies

##### Developing for the Cloud

- Azure DevOps
- CI/CD Pipelines
- Azure App Service Environments

##### Application Modernization

- Microservices and Containers
- Serverless Computing
- Hybrid Cloud Solutions

##### Cost Management and Optimization

- Microservices and Containers
- Serverless Computing
- Hybrid Cloud Solutions

### DevOps Expertise

70 Hours

#### Mastering DevOps

##### DevOps Tools and Practices

###### Introduction to DevOps

- Evolution of DevOps and its significance in modern software development.
- Core principles of DevOps practices.

###### Infrastructure Setup

- Fundamentals of server configuration and management.
- Setting up and managing virtual environments for DevOps practices.

##### Version Control with Git

###### Basics of Git

- Introduction to version control systems.
- Fundamental Git commands and workflows.

###### Advanced Git Techniques

- Branching strategies for collaborative development.
- Conflict resolution and best practices for maintaining code integrity.

##### Containerization with Docker

###### Introduction to Containerization

- Concepts of containerization and its advantages.
- Docker installation and setup.

###### Docker in Practice

- Building, running, and managing Docker containers.
- Docker Compose for multi-container setups.

### DevOps Expertise

#### Mastering DevOps

##### Configuration Management

###### Puppet for Configuration Management

- Basics of Puppet: Architecture, setup, and usage.
- Writing and applying Puppet manifests.

###### Ansible for Automated Configuration

- Ansible fundamentals: Playbooks, roles, and inventory.
- Automation of repetitive tasks using Ansible.

##### Continuous Integration and Continuous Delivery (CI/CD)

###### Jenkins for CI/CD

- Setting up Jenkins for automated build and deployment.
- Integrating Jenkins with various development tools.

###### Continuous Delivery and Deployment Strategies

- Automating the software release process.
- Best practices in maintaining a CI/CD pipeline.

##### Container Orchestration with Kubernetes

###### Kubernetes Fundamentals

- The architecture of Kubernetes, pods, and services.
- Deploying applications on Kubernetes clusters.

###### Advanced Kubernetes Management

- Scaling applications with Kubernetes.
- Kubernetes networking, storage, and security.



### DevOps Expertise

#### Mastering DevOps

##### Monitoring and Logging with ELK Stack

###### Elasticsearch, Logstash, and Kibana (ELK)

- Setting up the ELK Stack for logging and monitoring.
- Creating dashboards and visualizations in Kibana.

###### Integrating Monitoring into DevOps Workflows

- Automated monitoring and alerting.
- Best practices for log management and analysis.

##### Infrastructure as Code (IaC) with Terraform

###### Introduction to IaC and Terraform

- Principles of IaC and its benefits.
- Installing and configuring Terraform.

###### Building Infrastructure with Terraform

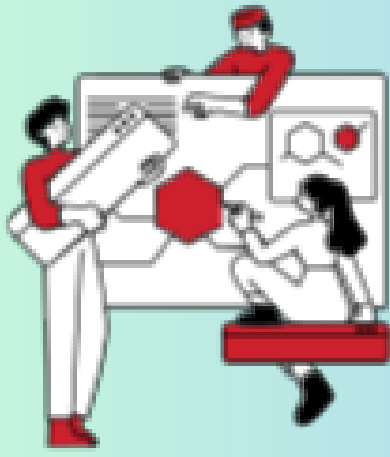
- Writing Terraform scripts for automated infrastructure deployment.
- Managing and scaling infrastructure with Terraform.

##### AWS Devops

- Code Commit
- Code Build
- Code Deploy
- Code Pipeline

##### Azure Devops

- Introduction to Microsoft Azure
- Introduction to DevOps
- Azure DevOps and Azure Repos
  - Azure Artifacts and Azure Test Plans
- Azure Pipelines
- Azure Boards



# PROJECTS

## Mini Projects -

- Online Blood Bank System.
- Cloud-based Bus Pass System.
- Rural Banking Using Cloud Computing.

## Capstone Projects -

- Server less Website on AWS.
- E-commerce Predictive Analytics.
- Movie Recommendation Engine Using AWS.