

AWS DEVOPS Engineer



About NomadSkills

At Nomadskills, we strive to bridge the gap between academia and the industry; providing skill education and training on cutting-edge technologies.

Our mission is to impart affordable and top-notch skill camps and courses, both offline and online, cultivating academic excellence and essential practical skills for your journey to success. We are not just an ed-tech company – we are the hub of innovation in education!

Visit Our Site:

www.nomadskills.in

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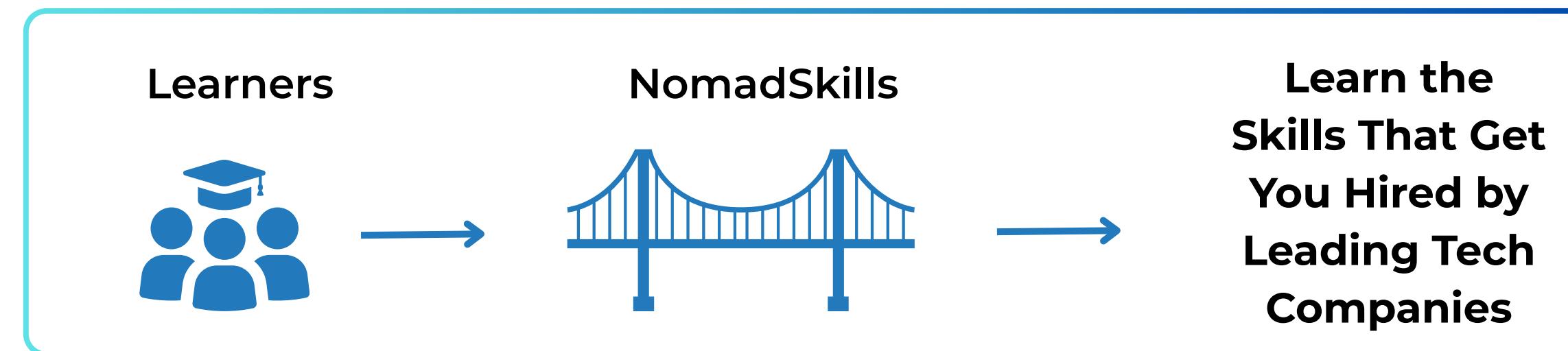
Why Industry-Ready Skills Matter

In today's tech-driven world, having just a degree isn't enough.

Students, recent graduates, and working professionals need **skills that match real industry needs** – especially in **Software Development, DevOps, Analytics and Data Science**. Traditional learning often misses hands-on experience.

That's where **NomadSkills** bridges the gap – through:

- Real-world projects & mock interviews
- Personalized learning and mentorship
- Career-focused upskilling for every learner



Your Tech Career Launchpad



Step 1

Learn



Step 2

Build



Step 3

Certified

Master In-Demand Technologies with Industry Experts

Immerse yourself in comprehensive learning experiences designed by industry professionals. Get hands-on with real-world projects and cutting-edge technologies.

Create Real-World Projects That Impress Employers

Transform your knowledge into tangible skills by building industry-standard projects that solve real problems and showcase your expertise.

Earn Industry-Recognized Certifications

Validate your skills with certifications that are respected by employers worldwide. Showcase your expertise and stand out in the job market.



Step 4

Hired

Get Ready for Your Dream Tech Job

We don't just train you - we prepare you for success. From resume building to interview preparation, we're with you until you land your dream job.

Become an Industry-Ready DevOps Professional

6-Month Learning Path

- Cloud Computing & AWS Fundamentals
- Linux & Python Fundamentals >
- DevOps & CI/CD with Jenkins >
- Infrastructure as Code with Terraform >
- Containerization with Docker & Kubernetes >

Cloud Computing & AWS Fundamentals

Master AWS core services and deploy scalable cloud infrastructure

4 Weeks Beginner

What You'll Learn

- ✓ Cloud Computing Concepts & Models
- ✓ EC2 Instances & Configurations
- ✓ Auto Scaling Groups
- ✓ S3 & Storage Classes
- ✓ AWS Management Console, CLI, SDKs
- ✓ AWS Global Infrastructure
- ✓ Elastic Load Balancing (ELB)
- ✓ AWS Lambda Functions
- ✓ EBS, Glacier & Storage Gateway
- ✓ Pricing Models & Free Tier

Hands-on Projects

- 📄 Multi-tier AWS Architecture
- 📄 Auto Scaling Setup
- 📄 Storage Solution Design

Skills Gained

- AWS
- EC2
- S3
- Cloud Computing
- Infrastructure

6-Month Learning Path

 Cloud Computing & AWS Fundamentals
⌚ 4 Weeks Beginner

 Linux & Python Fundamentals
⌚ 4 Weeks Beginner

 DevOps & CI/CD with Jenkins
⌚ 3 Weeks Intermediate

 Infrastructure as Code with Terraform
⌚ 3 Weeks Intermediate

 Containerization with Docker & Kubernetes
⌚ 4 Weeks Intermediate

Linux & Python Fundamentals

Automate tasks and manage systems using Linux and Python

⌚ 4 Weeks

-BEGINNER



What You'll Learn

 Linux Distributions & Basics

 User Management & Security

 Package Management (apt, yum)

 Python Syntax & Data Types

 Functions & Modules

 File System Navigation & Permissions

 Shell Scripting Fundamentals

 System Monitoring & Performance

 Control Flow Statements

 File Handling & Exception Handling

Hands-on Projects

 Automation Scripts

 System Monitoring Tool

 Python Utilities

Skills Gained

Linux

Python

Bash Scripting

System Administration

6-Month Learning Path

 Cloud Computing & AWS Fundamentals

⌚ 4 Weeks Beginner

 Linux & Python Fundamentals

⌚ 4 Weeks Beginner

 DevOps & CI/CD with Jenkins

⌚ 3 Weeks Intermediate

 Infrastructure as Code with Terraform

⌚ 3 Weeks Intermediate

 Containerization with Docker & Kubernetes

⌚ 4 Weeks Intermediate

DevOps & CI/CD with Jenkins

 Build automated CI/CD pipelines using Jenkins and related tools

⌚ 3 Weeks

⌚ Intermediate



What You'll Learn

 DevOps Principles & Practices

 Jenkins Architecture & Setup

 Version Control Integration

 Pipeline as Code (Jenkinsfile)

 GitLab CI & CircleCI Overview

 CI/CD Concepts & Benefits

 Jenkins Jobs & Pipelines

 Jenkins Plugins & Ecosystem

 Automated Testing Integration

 CI/CD Best Practices

Hands-on Projects

 End-to-End CI/CD Pipeline

 Automated Testing Setup

 Multi-stage Deployment

Skills Gained

Jenkins

CI/CD

Git

Automation

Pipeline Design

📘 6-Month Learning Path

 **Infrastructure as Code with Terraform**

⌚ 3 Weeks Intermediate

 **Containerization with Docker & Kubernetes**

⌚ 4 Weeks Intermediate

 **Configuration Management with Ansible**

⌚ 3 Weeks Intermediate

 **Advanced AWS Services**

⌚ 3 Weeks Advanced

 **DevSecOps & Security Best Practices**

⌚ 3 Weeks Advanced

Infrastructure as Code with Terraform

Manage cloud infrastructure as code using Terraform

⌚ 3 Weeks

프로그래밍 언어
Intermediate



▶ What You'll Learn

 Infrastructure as Code Concepts

 Terraform Configuration Files

 Terraform Modules & Reusability

 Provisioners & Providers

 Version Control Best Practices

 Terraform Installation & Setup

 CLI Commands (init, plan, apply)

 State Management Strategies

 CI/CD Pipeline Integration

 Collaborative Workflows

🕒 Hands-on Projects

 Infrastructure Automation

 Multi-environment Setup

 Module Development

★ Skills Gained

Terraform

IaC

Infrastructure Automation

Cloud Provisioning

6-Month Learning Path

-  **Containerization with Docker & Kubernetes** ▼
🕒 4 Weeks Intermediate
-  **Configuration Management with Ansible** >
🕒 3 Weeks Intermediate
-  **Advanced AWS Services** >
🕒 3 Weeks Advanced
-  **DevSecOps & Security Best Practices** >
🕒 3 Weeks Advanced
-  **Monitoring & Logging Solutions** >
🕒 3 Weeks Advanced

Containerization with Docker & Kubernetes



Containerize applications and manage them using Kubernetes



🕒 4 Weeks

 Intermediate

What You'll Learn

-  Docker Architecture & Benefits
 -  Dockerfile Best Practices
 -  Kubernetes Architecture & Components
 -  Kubernetes Networking & Storage
 -  Local Development (MiniKube, Kind)
 -  Images & Container Management
 -  Docker Compose & Multi-container
 -  Pods, Services & Deployments
 -  Helm Charts & Package Management
 -  Production Kubernetes Setup

🕒 Hands-on Projects

- File Dockerized Application
 - File Kubernetes Cluster Deployment
 - File Helm Chart Creation
 - File Multi-service Architecture

Skills Gained

Docker

Kubernetes

Containerization

Helm

Orchestration

6-Month Learning Path

 Configuration Management with Ansible

⌚ 3 Weeks Intermediate

 Advanced AWS Services

⌚ 3 Weeks Advanced

 DevSecOps & Security Best Practices

⌚ 3 Weeks Advanced

 Monitoring & Logging Solutions

⌚ 3 Weeks Advanced

 Serverless Development with AWS Lambda

⌚ 2 Weeks Advanced

Configuration Management with Ansible



Automate configuration management and application deployment

⌚ 3 Weeks

Intermediate



What You'll Learn

 Configuration Management Concepts

 Playbooks & YAML Syntax

 Inventory Management

 Ansible Vault for Secrets

 CI/CD Pipeline Integration

 Ansible Architecture & Setup

 Modules & Ad-hoc Commands

 Roles & Playbook Organization

 Ansible Galaxy & Custom Modules

 Ansible Tower/AWX Overview

Hands-on Projects

 Infrastructure Configuration

 Automated Deployment

 Role Development

Skills Gained

Ansible

Configuration Management

Automation

YAML

6-Month Learning Path

 Advanced AWS Services
⌚ 3 Weeks Advanced

 DevSecOps & Security Best Practices
⌚ 3 Weeks Advanced

 Monitoring & Logging Solutions
⌚ 3 Weeks Advanced

 Serverless Development with AWS Lambda
⌚ 2 Weeks Advanced

 Troubleshooting & Incident Response
⌚ 2 Weeks Advanced



Advanced AWS Services

Design and implement advanced AWS solutions for enterprise applications

⌚ 3 Weeks

⚡ Advanced



What You'll Learn

 AWS Networking (VPC, Subnets)

 Direct Connect & VPN

 Database Migration Service

 KMS & Encryption Services

 Lambda & Serverless Architecture

 Security Groups & NACLs

 RDS, DynamoDB & Aurora

 IAM Advanced Features

 Security Hub & GuardDuty

 API Gateway & Step Functions

Hands-on Projects

 Secure VPC Architecture

 Database Migration Plan

 Serverless Application

 Security Implementation

Skills Gained

AWS Advanced

Networking

Security

Serverless

Databases

6-Month Learning Path

-  **DevSecOps & Security Best Practices**
🕒 3 Weeks Advanced
-  **Monitoring & Logging Solutions**
🕒 3 Weeks Advanced
-  **Serverless Development with AWS Lambda**
🕒 2 Weeks Advanced
-  **Troubleshooting & Incident Response**
🕒 2 Weeks Advanced
-  **Project-Based Learning & Mentorship**
>>

DevSecOps & Security Best Practices



Integrate security throughout the DevOps lifecycle

🕒 3 Weeks

ILI Advanced



What You'll Learn

✓ DevSecOps Principles & Practices

✓ Secure Coding Practices

✓ Vulnerability Scanning

✓ Network Security & Segmentation

✓ Continuous Compliance

✓ Shift Left Security Approach

✓ SAST/DAST Implementation

✓ Infrastructure Security

✓ Compliance Frameworks (GDPR, HIPAA)

✓ Auditing & Monitoring

Hands-on Projects

📄 Security Pipeline Integration

📄 Compliance Implementation

📄 Security Assessment

📄 Incident Response Plan

Skills Gained

DevSecOps

Security

Compliance

SAST/DAST

Risk Management

6-Month Learning Path

 Monitoring & Logging Solutions

⌚ 3 Weeks Advanced

 Serverless Development with AWS Lambda

⌚ 2 Weeks Advanced

 Troubleshooting & Incident Response

⌚ 2 Weeks Advanced

 Project-Based Learning & Mentorship

⌚ 4 Weeks Advanced

 AWS DevOps Certification Prep

⌚ 1 Month Advanced

Monitoring & Logging Solutions



Implement comprehensive monitoring and observability solutions

⌚ 3 Weeks

ILI Advanced



What You'll Learn

 Monitoring Concepts & Metrics

 Prometheus & Grafana Setup

 ELK Stack for Log Management

 Centralized Logging with Splunk

 Alerting & Notification Systems

 Incident Management (PagerDuty)

 Application Performance Monitoring

 Distributed Tracing

 Microservices Monitoring

 SRE Principles & Practices

Hands-on Projects

 Monitoring Stack Deployment

 Dashboard Creation

 Alert System Setup

 Log Analysis Solution

Skills Gained

Prometheus

Grafana

ELK Stack

Monitoring

Observability

The NomadSkills Way: Learn, Build, Get Hired

After completing each module, learners attend a mock interview, build a mini project, and become eligible for internship or job placement opportunities.



Attend Mock Interviews

Practice real interview questions and get mentor feedback.



Build a Mini Project

Apply your learning through hands-on project work.



Internship & Job Opportunities

Qualify for internship and placement interviews with top tech companies.



The Real Work Framework – Experience How Real Teams Build Projects

At NomadSkills, learning goes beyond coding.

Each batch of 25-30 learners is divided into small teams (5-6 members), with assigned Team Leads and a Project Head. Together, they work on real-time projects - following the same process used in top tech companies.

Every team member has individual tasks, attends daily stand-up meetings, and gives daily progress updates - just like in a real job environment.

In every new project, roles rotate — helping everyone experience leadership, teamwork, and technical ownership.

The Real Work Framework

Example: Data Science & AI Real-Time Project

Project Theme: Automated CI/CD Pipeline for a Web Application on AWS

Objective:

Build and deploy a scalable web application using AWS DevOps tools and practices. The project helps learners understand how to automate software delivery, improve reliability, and manage infrastructure efficiently – just like in real engineering teams.

Team Structure:

- **Source Code & Build Team**
 - Manage code repositories (GitHub/GitLab).
 - Set up automated build pipelines using Jenkins, GitHub Actions, or AWS CodeBuild.
- **Infrastructure Team**
 - Use Terraform or AWS CloudFormation to set up and manage infrastructure as code (EC2, VPC, RDS, S3, Load Balancers).
- **CI/CD & Automation Team**
 - Design complete CI/CD pipelines for continuous integration and deployment.
 - Automate testing, packaging, and deployment to staging and production.

- **Monitoring & Security Team**
 - Implement monitoring and alerting using AWS CloudWatch, Grafana, or Prometheus.
 - Apply DevSecOps best practices – IAM roles, security groups, and secret management.
- **Containerization & Orchestration Team**
 - Build and deploy Docker containers using Kubernetes (EKS) or AWS ECS.
 - Manage scaling, service discovery, and automated rollbacks.
- **Team Lead & Project Head**
 - Plan sprints, conduct daily stand-ups, review deployments, and ensure team coordination.
 - Oversee progress and mentor technical troubleshooting.

Workflow Simulation:

- **Requirement Gathering & Task Assignment**

Understand project requirements, define infrastructure, and assign team responsibilities.
- **Infrastructure Setup (IaC)**

Create cloud infrastructure using Terraform/CloudFormation and set up the network architecture.
- **CI/CD Pipeline Implementation**

Develop an automated build and deployment pipeline using Jenkins or AWS DevOps tools.
- **Containerization & Monitoring**

Deploy applications using Docker & Kubernetes; implement monitoring and logging.
- **Testing, Review & Final Deployment**

Conduct test deployments, perform code reviews, and present a live demo to your mentors.

Interview Preparation at NomadSkills



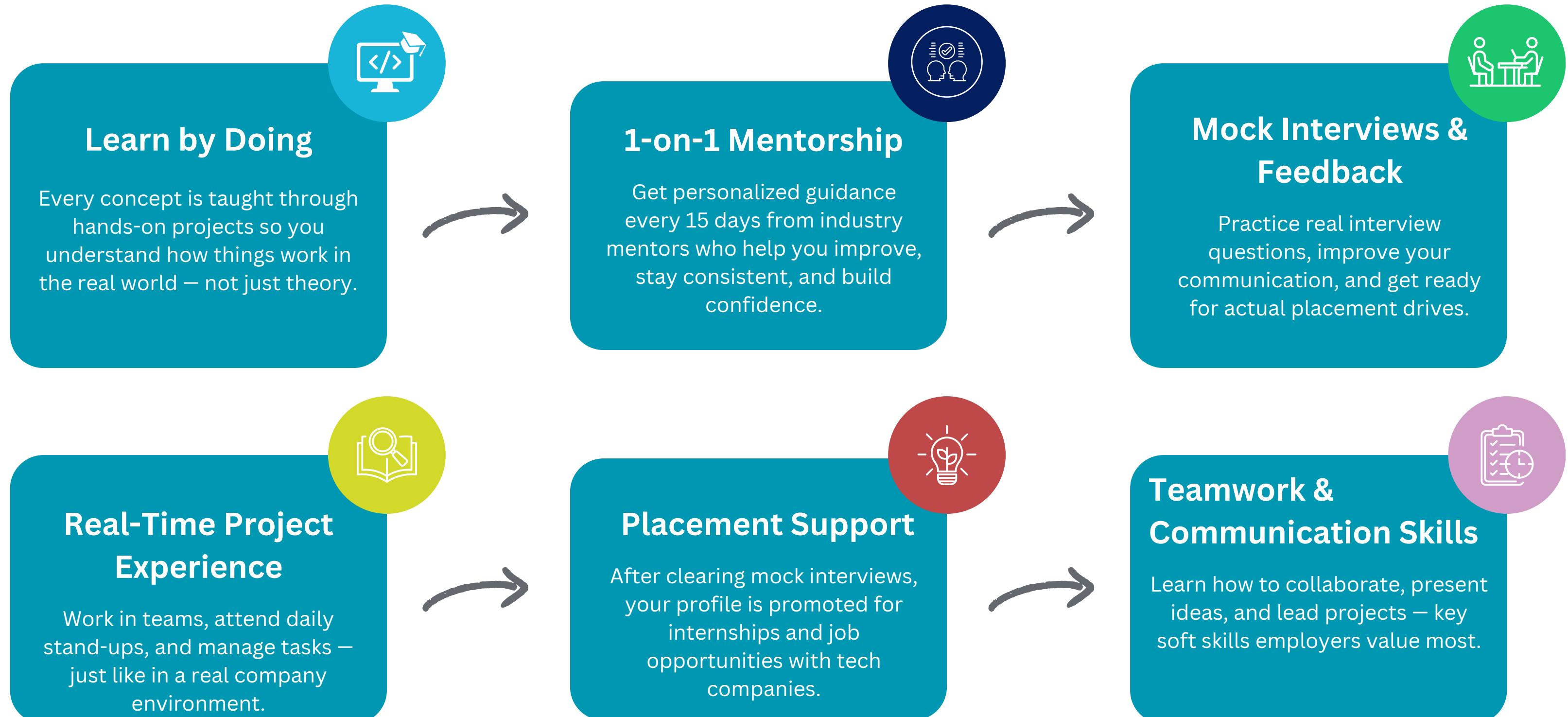
Practice real company-style interviews after each module.

Get personalized feedback and improvement tips from industry mentors.

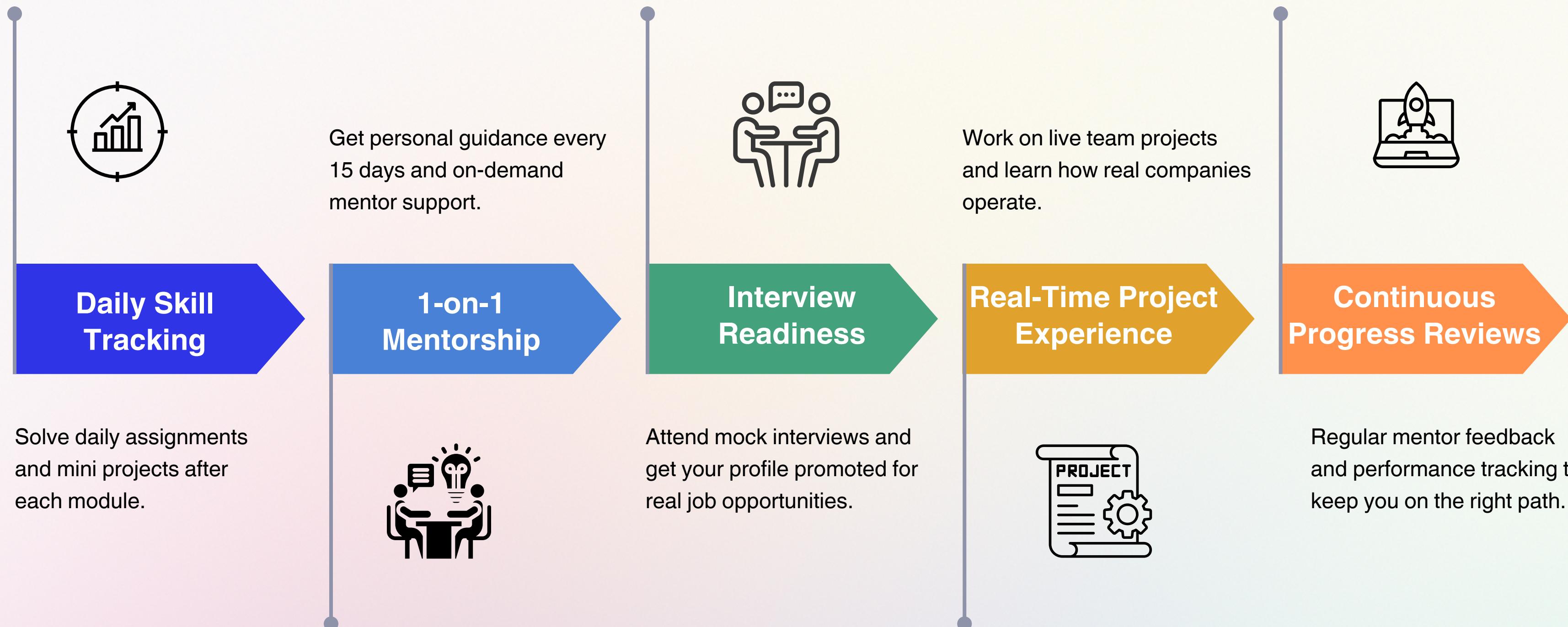
Create a strong GitHub portfolio and a professional resume that stand out.

Once you clear internal mock interviews, our team promotes your profile for internships and job opportunities.

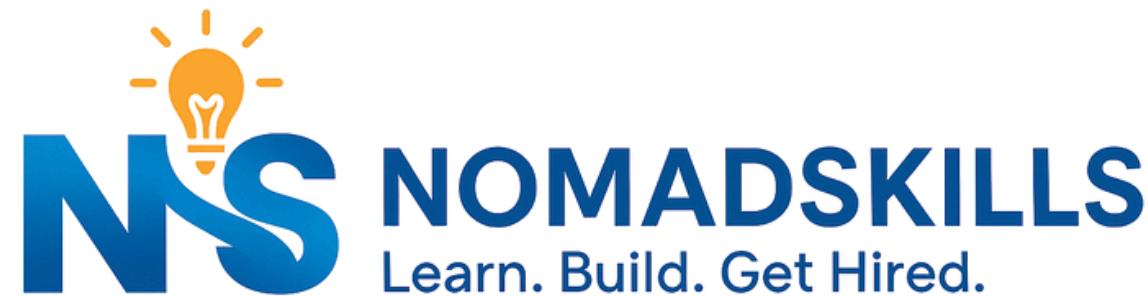
Benefits for Students at NomadSkills



How We Measure Success



Start your journey
with us today!



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