

SkillCred

DevOps & Cloud Program

Automate Infrastructure. Build Pipelines. Operate at Production Scale.

8

Weeks

96

Hours

4

Projects

6

Days/Week

HYBRID MODEL

2 Solo + 1 Pair + 1 Group Capstone

Dual Track

8W Standard + 4W Fast Track

Mentor Verified

Every project reviewed

PAT Certified

Score visible to all HRs

8-Week Syllabus

Mon-Sat | 2 Hrs/Day | 48 Sessions | 96 Contact Hours

01 Linux, Networking & Git

Linux admin, bash scripting, DNS, load balancing, SSH, Git branching

SOLO 1 START

02 Containers & Docker

Docker images/volumes/networks, multi-stage builds, Compose, scanning

SOLO 1 DELIVERY

03 CI/CD Pipelines

GitHub Actions, workflows, matrix builds, Jenkins, deployment strategies

SOLO 2 START

04 Infrastructure as Code

Terraform providers/modules/state, AWS/GCP core, Ansible, Vault

SOLO 2 DELIVERY

05 Kubernetes Core

K8s pods, services, deployments, ConfigMaps, Helm, probes, PVs

PAIR START

06 Advanced K8s & GitOps

HPA/VPA, Ingress + TLS, RBAC, network policies, ArgoCD, service mesh

PAIR DELIVERY

07 Monitoring, Logging & SRE

Prometheus, Grafana, ELK/Loki, alerting, SLIs/SLOs, chaos engineering

CAPSTONE START

08 Capstone Infra & Demo

Production assembly, security hardening, cost opt, DR, load testing, demo

CAPSTONE DELIVERY

DAILY 2-HOUR SESSION

0:00-0:10

Recap

0:10-0:40

Concept

0:40-1:30

Build Sprint

1:30-1:50

Standup

1:50-2:00

Wrap

Your 4 Portfolio Projects

2 Solo (individual) + 1 Pair (collaborative) + 1 Group Capstone (team)

SOLO 1 | INDIVIDUAL | Weeks 1-2

Difficulty:

Production-Ready Container Platform

Multi-service Docker Compose (app + API + DB + cache + reverse proxy), multi-stage Dockerfiles (<200MB), Nginx with SSL, health checks, structured JSON logging, Makefile with targets, Trivy vulnerability scanning. All services start in <30s, zero critical vulns.

Tech: Docker, Docker Compose, Nginx, Trivy, Make, bash scripting | HR Signal: Junior DevOps Engineer hire bar

SOLO 2 | INDIVIDUAL | Weeks 3-4

Difficulty:

Full CI/CD Pipeline with Infrastructure as Code

GitHub Actions: lint test build scan deploy. Terraform modules for VPC, compute, DB, LB. Ansible playbooks for server config. Multi-env (dev/staging/prod), secrets management, Slack notifications, cost estimation in PR comments, auto-rollback on failure. Pipeline <10min E2E.

Tech: GitHub Actions, Terraform, Ansible, AWS/GCP, Docker, Trivy, Slack webhook | HR Signal: DevOps Engineer hire bar

PAIR PROJECT | 2-3 STUDENTS | Weeks 5-6

Difficulty:

Kubernetes Platform with GitOps & Service Mesh

3+ microservices with Helm charts, ArgoCD GitOps auto-sync, HPA auto-scaling on CPU + custom metrics, Ingress with TLS and path routing, RBAC with namespace isolation, network policies, Prometheus + Grafana, blue-green deployment. ArgoCD syncs in <60s, zero-downtime deploys.

Tech: Kubernetes (k3s/kind), Helm 3, ArgoCD, Prometheus, Grafana, cert-manager, Nginx Ingress

Student A: K8s manifests, Helm charts, Ingress, HPA, network policies | Student B: ArgoCD setup, GitOps workflow, Prometheus/Grafana, RBAC, blue-green

GROUP CAPSTONE | 5 STUDENTS | Weeks 7-8 | Pick 1 of 3

Difficulty:

Option 1: Internal Developer Platform (IDP)

Service catalog with metadata, self-service env provisioning, one-click pipeline creation, resource monitoring, cost tracking, scaffolding templates, documentation hub, golden path templates. Tech: React, Terraform, GitHub Actions, Helm, ArgoCD, Prometheus, Docker

Option 2: Multi-Cloud Infrastructure Orchestrator

Unified provisioning across AWS + GCP, cost comparison, drift detection, policy-as-code (OPA), DR with cross-cloud failover, unified monitoring, compliance reporting. Tech: Terraform, Python, React, Prometheus, OPA, Docker

Option 3: Chaos Engineering & Reliability Platform

Chaos experiment library (pod kill, latency, CPU stress), scheduled game days, real-time impact monitoring, auto-rollback, SLO tracker with error budgets, post-incident reports. Tech: Kubernetes, LitmusChaos, Prometheus, Grafana, React, FastAPI, Docker

Module Ownership (all capstones): A: Service catalog, provisioning | B: Pipeline generation, Terraform | C: K8s engine, Helm, ArgoCD | D: Monitoring, cost tracking | E: Web portal, RBAC, deployment

Two Career Pathways

Both available simultaneously – not mutually exclusive

Employment Track

1. Complete 4 verified projects
2. Take PAT certification exam
3. Portfolio published to HR Portal
4. HRs discover and shortlist you
5. Interview scheduled via platform
6. Offer extended – placement tracked

Startup Track

1. Build investor-grade capstone
2. Mentor verifies for Investor Portal
3. List project with pitch deck & demo
4. Investors discover your project
5. Pitch invitation and presentation
6. Startup mentorship and funding

Project Assessment Test (PAT)

Your certification score – visible to every HR on the platform

MCQs 20% | Coding 25% | Architecture 20% | Viva Defense 25% | Peer Review 10%

90–100

Elite

Top 5% – senior roles, startup founding

75–89

Pro

Job-ready with solid fundamentals

60–74

Certified

Entry-level – core concepts proven

Mentor Verification – The Trust Engine

No project reaches HR or Investor portal without rigorous mentor review.

Code Quality 25% | Functionality 25% | Architecture 20% | Docs 15% | Deployment 15%

Ready to Build Your Future?

4 verified projects | PAT certification | Two career pathways

[ENROLL NOW](#)

[DOWNLOAD SYLLABUS](#)