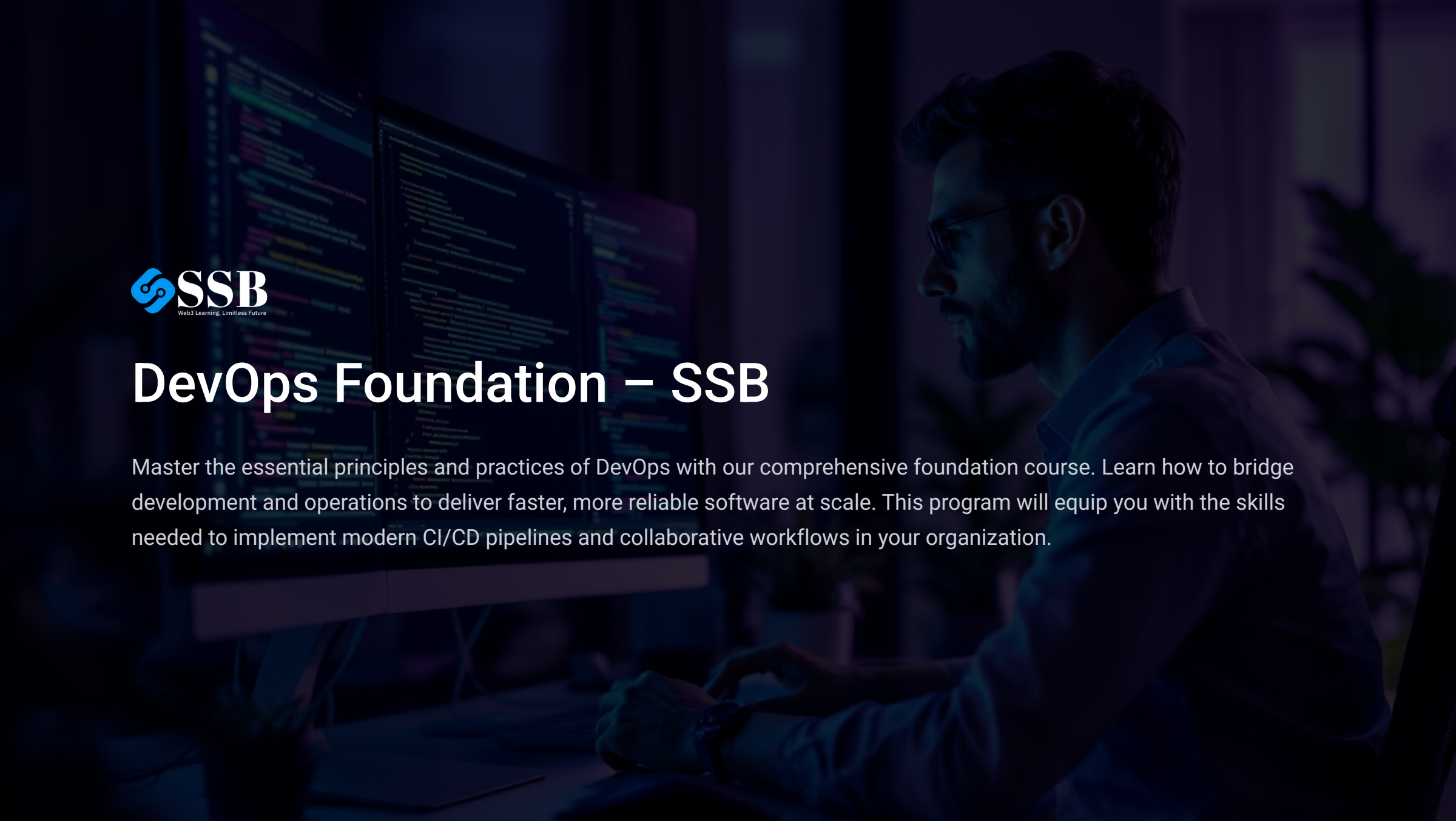


DevOps Foundation – SSB

Master the essential principles and practices of DevOps with our comprehensive foundation course. Learn how to bridge development and operations to deliver faster, more reliable software at scale. This program will equip you with the skills needed to implement modern CI/CD pipelines and collaborative workflows in your organization.

DevOps Foundation: Master Modern Software Delivery

🚀 **Kickstart Your DevOps Journey with SSB!**

Master the fundamentals of **DevOps** with **SSB's DevOps Foundation Course**, designed for both beginners and experienced professionals. This **comprehensive crash course** covers key DevOps concepts, CI/CD pipelines, infrastructure as code (IaC), automation, containerization, and cloud-native development.

Gain hands-on experience by implementing **real-world DevOps workflows**, setting up automated deployments, and working with essential tools like Docker, Kubernetes, Jenkins, Terraform, and AWS services. Learn from **expert mentors** who will guide you through building scalable, efficient, and automated software delivery pipelines.

With the **DevOps market projected to grow exponentially** and companies worldwide seeking skilled DevOps engineers, this is the perfect time to **advance your career in this high-demand field**.

🔥 **Be at the forefront of innovation! Enroll in SSB's DevOps Foundation Course today!**

Key Features & Tools

KEY FEATURES

Course Length

3 Weeks

Class Size

Limited to 20 students

Effort Required

10 Hours a Week

Format

Available both Online & Offline

Model

Instructor-Led sessions with expert guidance

Training Structure

80% Practical, 20% Theory for hands-on experience

TOOLS YOU WILL LEARN 🛠️

Docker

Containerization platform

Kubernetes

Container orchestration

Jenkins

CI/CD automation

Terraform

Infrastructure as code

AWS

Cloud platform

Git & GitHub

Version control

Ansible

Configuration management

Prometheus & Grafana

Monitoring & visualization

These tools will help you master **DevOps automation, CI/CD pipelines, cloud infrastructure, and monitoring** to accelerate your career in **DevOps engineering**! 🚀

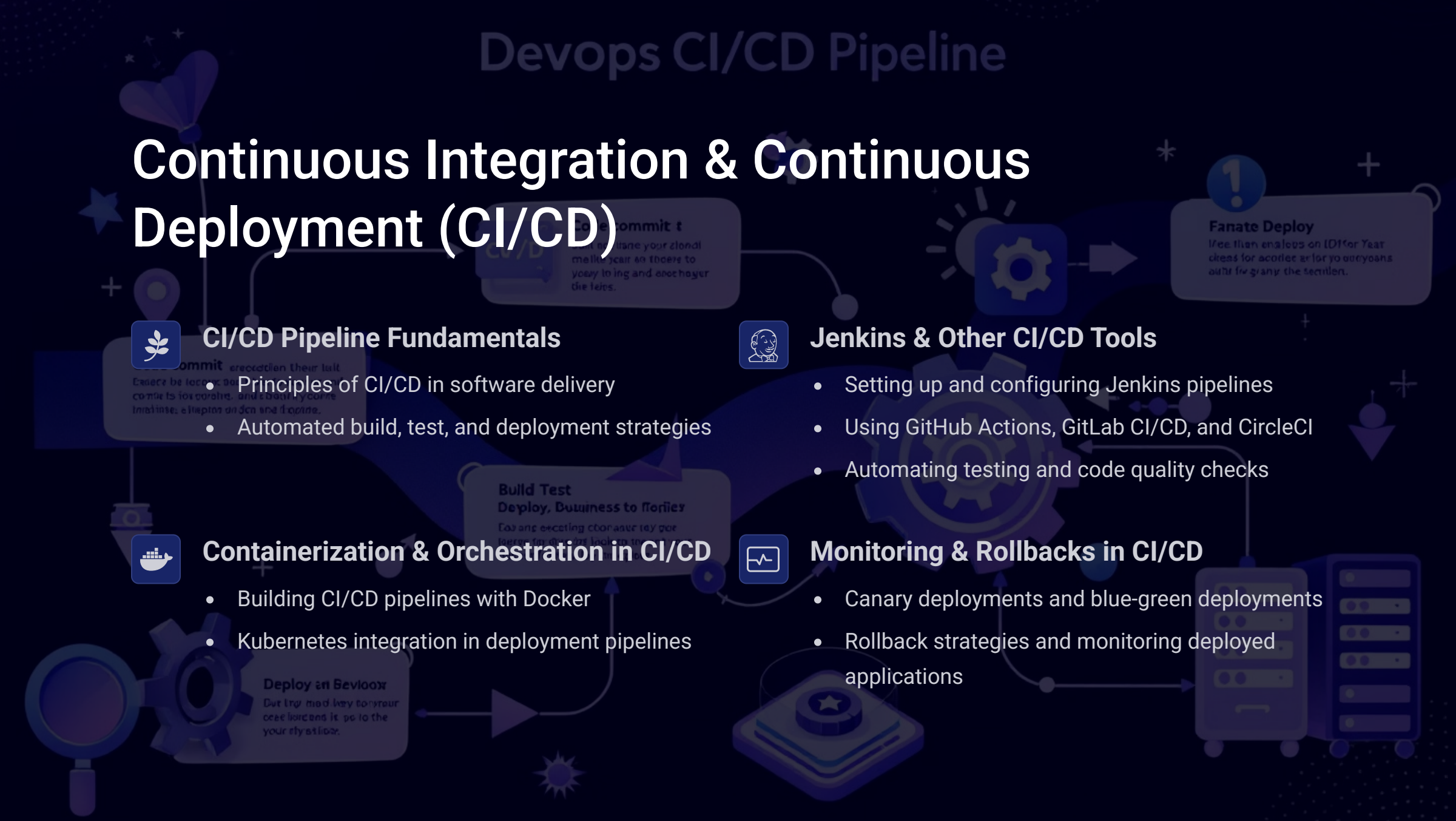
Course Modules

Module 1: Introduction to DevOps & Cloud Computing

- **Understanding DevOps:** DevOps principles, culture, and practices
- Benefits of DevOps and role in modern software development
- Differences between DevOps, Agile, and traditional development
- Key DevOps tools and their use cases
- **Cloud Computing Fundamentals:** Introduction to cloud service models: IaaS, PaaS, SaaS
- Overview of AWS, Azure, and Google Cloud for DevOps
- Virtualization, Containers, and Serverless Computing
- Infrastructure as a Service (IaaS) concepts

Module 2: Version Control & Collaboration Tools

- **Git & GitHub/GitLab/Bitbucket:** Setting up Git repositories
- Branching strategies (GitFlow, GitHub Flow)
- Merging, rebasing, and resolving conflicts
- CI/CD integration with GitHub Actions
- **Collaborative Development & Agile Workflows:** Agile methodologies: Scrum & Kanban
- CI/CD pipeline collaboration using JIRA, Trello, Asana
- Code review and peer collaboration



Continuous Integration & Continuous Deployment (CI/CD)

CI/CD Pipeline Fundamentals

- Principles of CI/CD in software delivery
- Automated build, test, and deployment strategies

Jenkins & Other CI/CD Tools

- Setting up and configuring Jenkins pipelines
- Using GitHub Actions, GitLab CI/CD, and CircleCI
- Automating testing and code quality checks

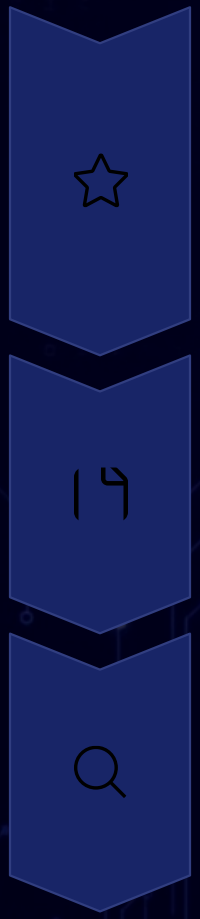
Containerization & Orchestration in CI/CD

- Building CI/CD pipelines with Docker
- Kubernetes integration in deployment pipelines

Monitoring & Rollbacks in CI/CD

- Canary deployments and blue-green deployments
- Rollback strategies and monitoring deployed applications

Infrastructure as Code (IaC) & Configuration Management



Infrastructure as Code with Terraform

- Introduction to Terraform and declarative infrastructure
- Writing Terraform configurations
- Managing AWS/Azure/GCP resources with Terraform

Configuration Management Tools

- Ansible, Puppet, and Chef overview
- Automating server configuration with Ansible Playbooks

Kubernetes & Helm for Deployment Automation

- Kubernetes architecture and components
- Managing Kubernetes clusters with Helm

Monitoring, Logging & Security in DevOps

Application & Infrastructure Monitoring

- Introduction to Prometheus and Grafana
- Cloud-native monitoring with AWS CloudWatch, Azure Monitor

Logging & Centralized Log Management

- ELK Stack (Elasticsearch, Logstash, Kibana)
- Fluentd and Loki for log aggregation

Security Best Practices in DevOps

- Implementing DevSecOps in CI/CD pipelines
- Security scanning tools (Snyk, Trivy, SonarQube)
- Managing secrets with HashiCorp Vault

Cloud Services & Deployment Strategies

AWS for DevOps Engineers

- AWS EC2, S3, IAM, RDS, Lambda
- Load balancing and auto-scaling strategies

Azure & Google Cloud for DevOps

- Azure DevOps and GCP CI/CD workflows
- Serverless computing with Azure Functions & Google Cloud Functions

Cloud-Native Deployment Strategies

- Microservices vs Monolithic architectures
- Deploying applications in Kubernetes & serverless environments

DevOps Automation & Advanced Topics

Automating DevOps Workflows

Infrastructure automation with AWS CloudFormation

CI/CD Automation

CI/CD automation scripts with Bash/Python

FinOps & Cost Optimization

Managing cloud costs with AWS Cost Explorer

Performance Optimization

Caching strategies for backend performance

Automating DevOps Workflows

- Infrastructure automation with AWS CloudFormation
- CI/CD automation scripts with Bash/Python

Performance Optimization in DevOps

- Caching strategies for backend performance
- Load testing with JMeter & Locust

FinOps & Cost Optimization in DevOps

- Managing cloud costs with AWS Cost Explorer
- Kubernetes cost management with Karpenter

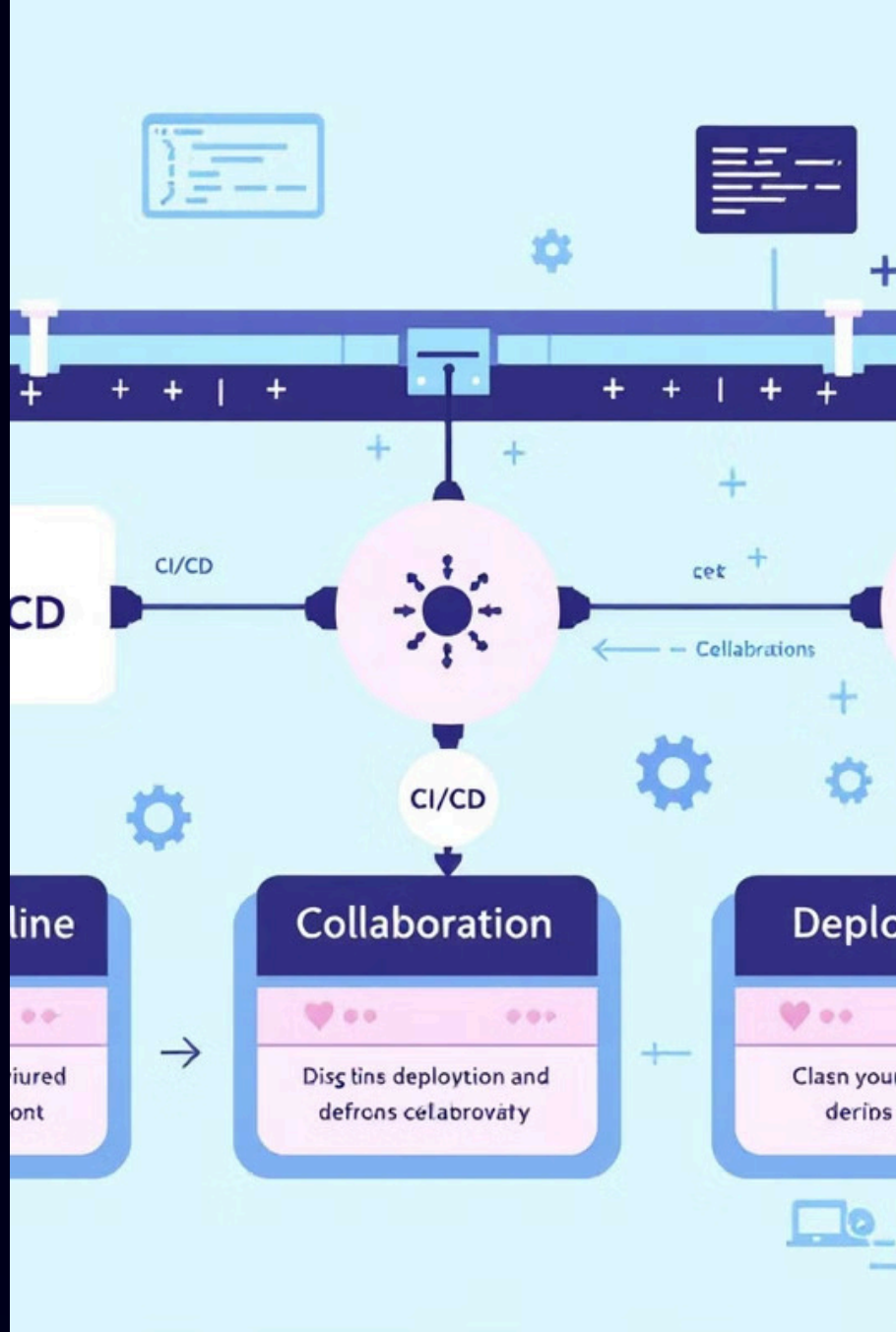
Project & Practice

Capstone Project: Build & Deploy a Scalable Backend Application

- Develop and deploy a full-stack application using DevOps best practices
- Implement **CI/CD pipelines, IaC, monitoring, security**, and **cloud deployment**
- Deploy to AWS, Azure, or GCP using Docker, Kubernetes, and Terraform

Real-World DevOps Case Studies

- DevOps transformations in large enterprises
- Lessons from high-performing DevOps teams



Final Preparation & Certification Readiness

Mock Interviews & Resume Building for DevOps Roles

Prepare for technical interviews with industry-standard questions and expert feedback on your resume.

Hands-on Practice on Cloud Platforms & DevOps Tools

Gain real-world experience through guided practice sessions on major cloud platforms and DevOps tools.

Preparation for AWS, Azure, Google Cloud DevOps Certifications

Get ready for industry-recognized certifications with targeted study materials and practice exams.

Career Opportunities & Certification

This **structured curriculum** ensures a **comprehensive learning path** for aspiring **DevOps Engineers**, covering **key tools, technologies, and best practices** required to succeed in modern cloud-driven development environments. 🚀

Certificate:

On successful completion of the programme, you will earn a coveted certificate as Shivacha School of Blockchain.

The Certificate shown above is for indicative purpose only. The actual certificate may vary.

Mentors:

Chandrakant Singh

Rupesh Kumar

Isha Gill

Vaani Shree

Anurag Singh

Internship & Placement Opportunities Upon Successful Completion

Unlock exciting career prospects after completing the DevOps Engineer Program! This program equips you with the skills needed to excel in the DevOps and Cloud industry, opening doors to various high-demand roles, including:

DevOps Engineer

Cloud Engineer

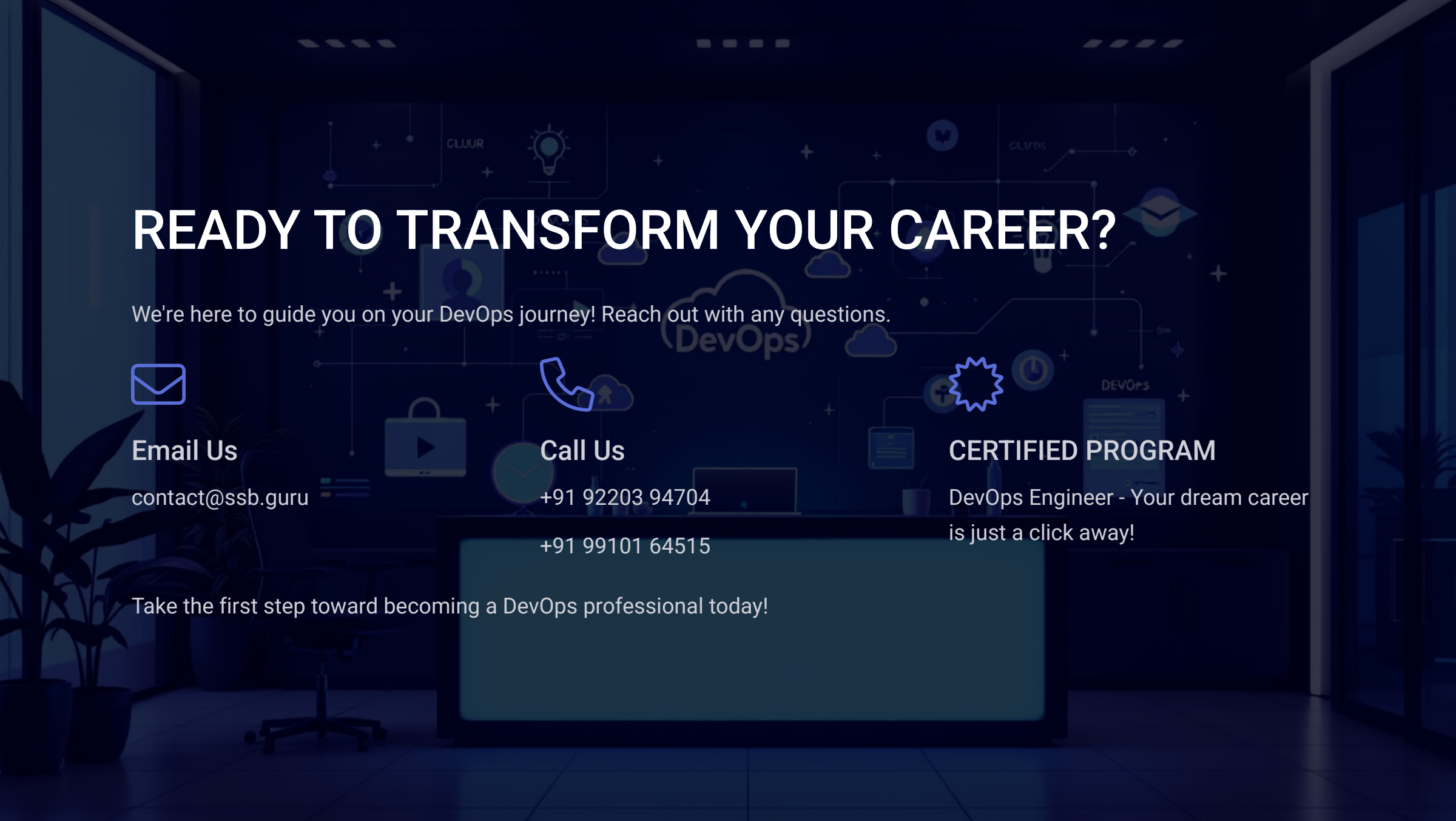
Site Reliability Engineer (SRE)

CI/CD Pipeline Engineer

🔹 **DevOps Engineer** 🔹 **Cloud Engineer** 🔹 **Site Reliability Engineer (SRE)** 🔹 **CI/CD Pipeline Engineer** 🔹 **Infrastructure Automation Engineer** 🔹 **Cloud Security Engineer** 🔹 **Platform Engineer** 🔹 **Release Manager** 🔹 **Monitoring & Performance Engineer** 🔹 **DevSecOps Specialist**

🚀 Step into the future of cloud computing and automation! Secure your place in the ever-growing DevOps industry!

CERTIFIED PROGRAM IN DEVOPS ENGINEER



READY TO TRANSFORM YOUR CAREER?

We're here to guide you on your DevOps journey! Reach out with any questions.

Email Us

contact@ssb.guru

Call Us

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+91 99101 64515

CERTIFIED PROGRAM

DevOps Engineer - Your dream career is just a click away!

Take the first step toward becoming a DevOps professional today!