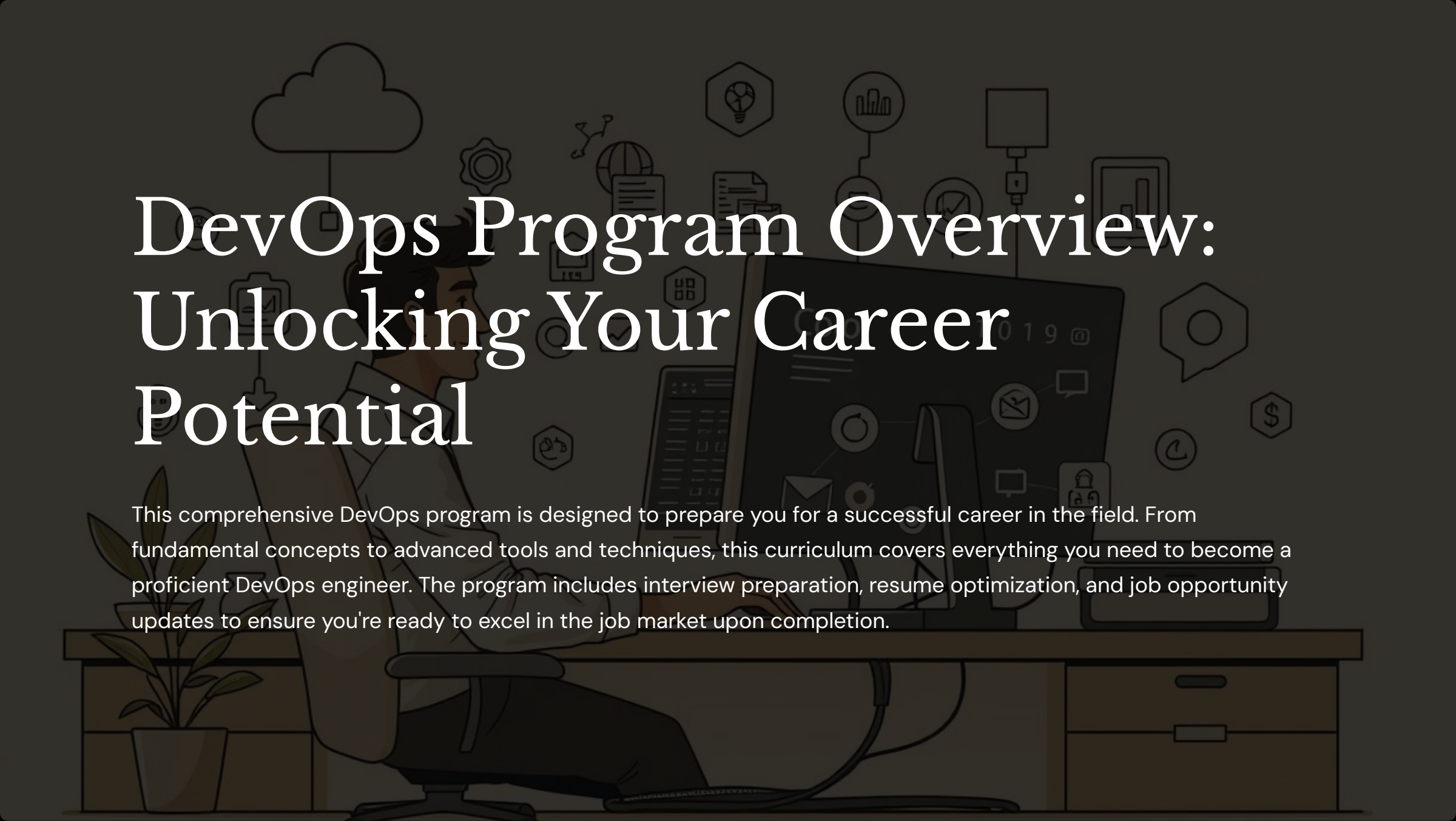

DevOps Program Overview: Unlocking Your Career Potential

This comprehensive DevOps program is designed to prepare you for a successful career in the field. From fundamental concepts to advanced tools and techniques, this curriculum covers everything you need to become a proficient DevOps engineer. The program includes interview preparation, resume optimization, and job opportunity updates to ensure you're ready to excel in the job market upon completion.

Program Benefits and Career Support

Interview Preparation

Get ready to ace DevOps interviews with our comprehensive preparation sessions, covering common questions and scenarios. Our experts will guide you through the interview process, ensuring you're confident and well-prepared.

Resume Optimization

Our experts will optimize your resume to showcase your DevOps skills effectively, ensuring you stand out to potential employers. We'll help you highlight your newly acquired skills and experiences to make a strong impression.

Job Opportunity Updates

Remain at the forefront of opportunities with our timely job notifications, delivering updates on potential openings within the DevOps realm. Seize every chance for career advancement – stay informed and primed to progress in your professional journey.

Our collaborative team, alongside DevOps experts, has diligently designed this curriculum to ensure your readiness for employment upon program completion.

Foundations of DevOps and Linux (Weeks 1-4)

DevOps Fundamentals (Weeks 1-2)

Introduction to DevOps and its Importance. Software Development Lifecycle in DevOps.

Git Fundamentals (Weeks 3-4)

Version control, branching, merging.

1

2

Linux for DevOps Engineers (Weeks 1-2)

Setting up Prerequisites for Linux. Introduction to Linux (file system, commands, permissions).

3

4

Scripting and Software Lifecycle (Week 3)

Basics of Bash Scripting. Script Execution and Variables. Introduction to Data Serialization. Overview of YAML and JSON as Serialization Formats. Understanding JSON (JavaScript Object Notation). YAML (YAML Ain't Markup Language) Fundamentals.

Advanced Source Code Management and CI/CD (Weeks 4-8)

Source Code Management using Git (Week 4)

Git Repositories and Version Control. Git Workflows and Collaboration. Using Git in IDE and Git Server Administration.

Continuous Integration with Jenkins

Introduction to Continuous Integration. Configuring and Customizing Jenkins. Jenkins Security and Monitoring. Automated Deployment and Jenkins Pipeline.

1

2

CI/CD Pipeline (Weeks 5-8)

Building and Deployment Code Quality Analysis with SonarQube. Artifact Management with Nexus. Deployment through Tomcat and Loading with Nginx.

3

Cloud Computing and Containerization (Weeks 9-11)

Cloud Computing with AWS (Weeks 9-10)

Explore the fundamentals of cloud computing and dive deep into Amazon Web Services (AWS). Learn about cloud infrastructure, services, and best practices for deploying and managing applications in the cloud.

Containerization with Docker (Week 11)

Master the art of containerization with Docker. Understand container concepts, create and manage Docker images and containers, and learn how to implement containerized applications in a DevOps environment.

Advanced DevOps Technologies (Weeks 12-17)

1

Continuous Orchestration with Kubernetes (Weeks 12-16)

Kubernetes for Container Orchestration. Learn to deploy, scale, and manage containerized applications using Kubernetes.

2

Configuration Management (Weeks 12-16)

Configuration Management with Ansible and Terraform. Master infrastructure as code and automate configuration management tasks.

3

Monitoring and Infrastructure Automation (Week 17)

Monitoring and Infrastructure Automation using Prometheus and Grafana. Learn to set up robust monitoring solutions for your DevOps infrastructure.

4

Collaboration and Communication Tools (Week 17)

Explore essential collaboration and communication tools used in DevOps environments to enhance team productivity and efficiency.

Career Preparation and Final Review (Weeks 18-20)

1 ## Final Course Review and Recap

Consolidate your knowledge with a comprehensive review of all topics covered throughout the program.

2 ## Resume and Online Presence

Crafting an Effective Resume. Building a Strong Online Presence. Learn to showcase your skills and experiences effectively to potential employers.

3 ## Job Search and Interview Preparation

Effective Job Search Strategies. Interview Preparation and Techniques. Mock Interviews and Role Play. Technical Assessments and Coding Challenges.

4 ## Professional Development

Soft Skills and Communication. Negotiating Job Offers and Compensation. Prepare for all aspects of your professional career in DevOps.

Final Project and Program Conclusion

Throughout the 6 months, participants will work on a cumulative project where they'll apply the concepts and tools learned. This project could involve automating infrastructure deployment, setting up CI/CD pipelines for a sample application, containerizing applications, and managing them with Kubernetes, all while adhering to SRE practices for reliability and scalability.

By completing this comprehensive DevOps program, you'll be well-equipped to tackle the challenges of modern software development and operations. You'll have gained hands-on experience with industry-standard tools and practices, setting you up for success in your DevOps career.