

DevOps COURSE

While students in large colleges study mass amounts of theory, we offer up to date, fresh and relevant data analytics classes **focused on practical work methods**, **adapted to industry needs** so you can penetrate the job market with enough confidence and the right experience to do your job right.

Our classes are taught by industry experts, those who work simultaneously as interviewers and recruiters in high-tech companies and know exactly what it takes to succeed. Each student learns **exactly** what they need to know for their future jobs – for this reason, all candidates are screened and evaluated before admission in order to guarantee the highest level of learning and ensure future career opportunities.

What does this mean for you? you gain the best hands-on experience, pay less money - two birds, one stone.

Our knowledge, your future



Private classes

Our DevOps courses focus on practical knowledge; in class exercises, homework assignments and learning in small groups which allows for personal attention and better understanding of the material.



Classes for companies

We offer customized data analytics courses and workshops according to your company needs. Course materials are suited to your everyday tasks and training requirements.



"Preparation for Work" workshop

We can provide career assistance by reviewing your resume, teaching social media networking and defining LinkedIn content for professional "branding" as well as refer you to relevant positions.





Who is this course for?

DevOps engineer career opportunities are exploding worldwide. Organizations are investing heavily in DevOps capabilities to maintain a cutting edge in the market. DevOps course will be of benefit the following professional roles:

- IT engineers
- Software Developers
- Architects
- Technical Project Managers
- Operations Support
- Deployment engineers
- Dev managers
- Automation testers
- Decision makers





Learn from industry experts

Industry-recognized DevOps engineer course will teach you current and indemand skills, ensuring you stay ahead of the curve in a fast-changing industry.



Get hands-on experience

Practical skills are key to succeed and stand out in the market. By working on practical tasks throughout the course, you'll master the skills of a great DevOps engineer.



Learn amongst professionals

Be surrounded by like-minded people who are determined to enhance their career by understanding how to leverage data.



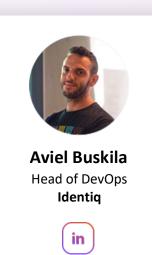
Connect with the industry

Expect dedicated career guidance, access our industry hiring partners, and find your future employment in DevOps.



THE INSTRUCTORS













OUR ALUMNI WORK WITH THE BEST































































DEVOPS COURSE SYLLABUS

Scripting for DevOps Engineers

Engineers automating infrastructure and managing configuration need to know how to code. In this module, you will get a hands-on introduction to the Python programming language as well as advanced techniques that will ease your Development learning process.

Version Control Using Git

In this module, you will learn why and how to use a version control system for DevOps. You will use Git to version, manage, merge, diff, and control your infrastructure code.

Linux Fundamentals

Once you've established a DevOps program, you will learn how to setup, configure, administer, and manage data center and Cloud-based environments. In this module, you will learn the Linux skills required to build these foundations.

Provisioning Resources

In this module you will learn how to provision resources across over 20 different on-premises and cloud platforms and how to create and provision resources in a hybrid infrastructure.

Build Automation and Continuous Integration

An effective DevOps leverages technology to power continuous integration and a continuous delivery pipeline. In this module, you will learn how to configure Jenkins to run pipelines, code coverage and quality tools, testing suites, and CM and deployment tools.

Data and Continuous monitoring

In this module, you discover how to collect, analyze, and make decisions using logs and other system-generated data. You ingest and analyze log and other system data to provide operational troubleshooting and decision support

Working with Containers

In a DevOps program, Docker containers can be used to simplify deployments. In this module, you will learn how to build containers and compose multi-container applications to support microservices.

Configuration Management

Automating configuration management tasks helps gain speed, agility, and productivity. In this module, you will learn how to use technology to automate these tasks.



Topic	Description
Introduction to DevOps Concepts	
Introduction	What is DevOps?MethodologiesThe role of ops in the DevOps world
Scriptii	ng for DevOps Engineers
Overview and setup	IntroPython environment setupIDE setup
Data and control flow	 Data types Syntax Operators Statements Conditions Loops
Data structures	ArrayListTupleDictionary
Advance Python	 Files I/O Error handling Debug Packages PIP Conventions
Web fundamentals	 Introduction Elements Attributes CSS JavaScript



	OUR KNOWLEDGE, YOUR FUTURE
Test automation	Web drivers
	 Methods
	• Locators
	 Controllers
	 Switch and Navigation
	Synchronization
API's	Overview
	 Protocols
	Why REST
	Requests API
	Rest methods
	Response codes
	Structure
	JSON rules
	JSON parsing
	Routing
	Path params
	Query params
	Building an API
Python project	Build a python RESTful API
	Build a python RESTful API tion and Continuous Integration
Build Automat	tion and Continuous Integration
Build Automat	 Overview Jenkins Introduction
Build Automat	tion and Continuous Integration Overview
Build Automat	 Overview Jenkins Introduction Exploring Jenkins dashboard Jenkins Architecture
Build Automat	 Overview Jenkins Introduction Exploring Jenkins dashboard Jenkins Architecture Setup & configuration
Build Automat	 Overview Jenkins Introduction Exploring Jenkins dashboard Jenkins Architecture Setup & configuration Jenkins configurations
Build Automat	 Overview Jenkins Introduction Exploring Jenkins dashboard Jenkins Architecture Setup & configuration Jenkins configurations Pipelines
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CI Intro Jenkins core	 Overview Jenkins Introduction Exploring Jenkins dashboard Jenkins Architecture Setup & configuration Jenkins configurations Pipelines Blue Ocean
CI Intro Jenkins core	Overview Jenkins Introduction Exploring Jenkins dashboard Jenkins Architecture Setup & configuration Jenkins configurations Pipelines Blue Ocean What are build Jobs
CI Intro Jenkins core	 Overview Jenkins Introduction Exploring Jenkins dashboard Jenkins Architecture Setup & configuration Jenkins configurations Pipelines Blue Ocean What are build Jobs Building your build jobs
CI Intro Jenkins core	Overview Jenkins Introduction Exploring Jenkins dashboard Jenkins Architecture Setup & configuration Jenkins configurations Pipelines Blue Ocean What are build Jobs Building your build jobs Scheduling
CI Intro Jenkins core	Overview Jenkins Introduction Exploring Jenkins dashboard Jenkins Architecture Setup & configuration Jenkins configurations Pipelines Blue Ocean What are build Jobs Building your build jobs Scheduling Reporting
CI Intro Jenkins core	Overview Jenkins Introduction Exploring Jenkins dashboard Jenkins Architecture Setup & configuration Jenkins configurations Pipelines Blue Ocean What are build Jobs Building your build jobs Scheduling Reporting Disabling and deleting jobs



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Jenkins management	 Plugins Log rotation Master-slave architecture Nodes restrictions Reporting
Jenkins security	AuthenticationAuthorizationCreating usersJenkins API
	Version Control Using Git
Git Basics	 What is Git? Git VS. SVN Terminology Setup & configuration Configuring Git Logging Commits Branching Merging Conflicts Reset & Revert Git GUI
Git & Repository	 Repository overview Remotes Cloning Fetch, pull & push Building your repository Pull Requests Git – Jenkins integration



Data ai	nd Continuous monitoring
Database	 Overview and setup RDBMS Vs. NoSQL Types Connections Security Schemas and tables Columns properties Data types PyMySQL Cursor DB (CRUD) operations
Data monitoring	 Monitoring Concepts Introduction to Prometheus stack Prometheus server Metrics collection PromQL Exporters Grafana Alert Manager
L	inux Fundamentals
Overview	 What is Linux? Distributions Environment setup Oracle VirtualBox & VMware
Linux commands	 Shell, Bash & Terminal Commands Input / Output Package management Interprocess communication Grep, tail, sed
Linux system	 System Utilities Linux processes System signals VI & VIM & nano SSH server & client Public and private keys SFTP



Working with Containers	
Overview	 What is, and why Docker? Use case of Docker Container Life Cycle Docker vs. Virtualization Docker types Environment setup Docker commands
Docker basic	 Docker architecture YAML Docker images Docker compose Services Docker image download Working multiple containers Contexts Docker HUB
Docker advanced	 VNC (Virtual Network Computing) Docker-Jenkins integration "Dockerizing" your code Creating a custom image Running a container from the custom image Docker networking Docker volumes Best practices Docker-Jenkins integration Containers dependencies Environment files and configurations
Container Orchestration - Kubernetes	 Intro to Kubernetes Kubernetes Architecture Environment Setup Kubernetes Components Hierarchy The K8S API
Working with Kubernetes	 Objects API versions Desire and actual state Pods, ReplicaSets, Deployment Updates and reverts Scaling and auto scaling



	 Services, networking options, Exposing our cluster Config maps Secretes Kubectl Logging
HELM	 Intro to Helm Architecture Developing and managing helm charts Templating Parameterized deployments Debugging Updating charts Requiring dependency as charts Sharing chart with repositories
Hosted Kubernetes	Container Services in the cloud (GCP, AWS)K8S On premise
CI/CD Project	 Build and ship your containerized python application platform using CI/CD pipelines
Pro	ovisioning Resources
Cloud platform	 Overview Why cloud? GCP Vs. AWS Vs. Azure Cloud deployment
AWS (Amazon Web Services) basics	 AWS account Regions EC2 types and pricing AMI's EIP, allocating, associating, releasing Launch instances in AWS Identity Access Management (IAM) Roles Policies Users Groups



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AWS hands-on	 AWS CLI Cloud app deployment Connecting to cloud remote machines Working with access key and secret access keys Profiles Budgets Cost explorer
Terraform	 Infrastructure as code Environment setup HCL Workflows Commands Providers Resources Variables User data Output values Cloud infrastructure
Conf	iguration Management
Configuration management	 Introduction Terminology Modules Configurations management tools Master-Agent configurations Agentless operation Roles Environments



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Ansible	 Introduction to Ansible Ansible advantages Ansible Installation Provisioning Built-in security Configuring Ansible Roles Write Playbooks Executing Ad-Hoc command Declarative commands Facts Modules Variables Ansible galaxy Conditionals Loops Vault
Final Project	
Final project	Orchestrating your containerized deployments for production-ready products
Job Interviews	
Job interviews	Most frequent interview questions and solutionsCourse summary