

# COHORT

# 2026

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**CODIGO ALDEA**

# PROGRAM OUTCOME

BY THE END OF THIS COHORT, **YOU** WILL BE ABLE TO:

- **BUILD FULL-STACK WEB APPLICATIONS USING PYTHON AND DJANGO**
- **DESIGN AND CONSUME REST APIS USING DJANGO REST FRAMEWORK**
- **DEVELOP RESPONSIVE FRONTENDS USING HTML, CSS, JAVASCRIPT, BOOTSTRAP, AND TAILWIND CSS**
- **WORK WITH POSTGRESQL DATABASES**
- **USE GIT AND GITHUB IN A PROFESSIONAL DEVELOPMENT WORKFLOW**
- **DEPLOY APPLICATIONS ON AWS**
- **IMPLEMENT CI/CD PIPELINES**
- **BUILD AND DEPLOY PRODUCTION-READY PROJECTS**

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# MODULE CONTENT

- HANDS-ON TECHNICAL TRAINING BY INDUSTRY PROFESSIONALS
- AI-POWERED PRODUCTIVITY & DEVELOPMENT WORKFLOWS
- CAREER MENTORSHIP & INDUSTRY GUIDANCE
- SOFT SKILLS & PROFESSIONAL COMMUNICATION TRAINING
- END-TO-END INDUSTRY-LEVEL PROJECTS
- TEAM-BASED PROJECT DEVELOPMENT EXPERIENCE
- ATS-OPTIMIZED RESUME CREATION
- PROFESSIONAL PORTFOLIO & GITHUB PROFILE DEVELOPMENT
- LINKEDIN PROFILE OPTIMIZATION & PERSONAL BRANDING
- MOCK INTERVIEWS & INTERVIEW PREPARATION SESSIONS
- FREELANCING ROADMAP & CLIENT ACQUISITION STRATEGIES

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# PYTHON FULLSTACK

## WEEK 1

- PYTHON ENVIRONMENT SETUP
- VARIABLES AND DATA TYPES
- OPERATORS
- INPUT AND OUTPUT
- TYPE CASTING
- STRINGS

## WEEK 2

- CONDITIONAL STATEMENTS
- LOOPS
- FUNCTIONS
- LAMBDA FUNCTIONS
- LIST COMPREHENSIONS
- DSA

## WEEK 3

- LISTS
- TUPLES
- SETS
- DICTIONARIES
- DSA

## WEEK 4

- OOP
- INHERITANCE
- POLYMORPHISM
- ENCAPSULATION
- EXCEPTION HANDLING
- FILE HANDLING
- DSA

## WEEK 5

- SEMANTIC HTML
- FORMS
- TABLES
- MEDIA
- ACCESSIBILITY

## WEEK 6

- CSS
- SELECTORS
- FLEXBOX
- GRID
- ANIMATIONS
- RESPONSIVE DESIGN

## WEEK 7

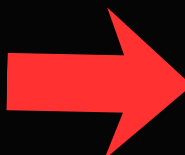
- BOOTSTRAP
- GRID SYSTEM
- COMPONENTS
- NAVBAR
- CARDS
- FORMS
- MODALS

## WEEK 8

- JAVASCRIPT
- VARIABLES
- FUNCTIONS
- DOM
- EVENTS
- LOCAL STORAGE
- FETCH API

## WEEK 9

- UTILITY CLASSES
- LAYOUTS
- COMPONENT CREATION



# PYTHON FULLSTACK

## WEEK 10

- **GIT** BASICS
- BRANCHING
- MERGING
- PULL REQUESTS
- GITHUB ACTIONS BASICS

## WEEK 11

- **POSTGRES**
- INSTALLATION
- DATABASE DESIGN
- TABLES
- CONSTRAINTS
- CRUD OPERATIONS

## WEEK 12

- JOINS
- INDEXING
- VIEWS
- STORED PROCEDURES
- TRANSACTIONS

## WEEK 13

- **DJANGO** ARCHITECTURE
- PROJECT STRUCTURE
- APPS
- URL ROUTING
- VIEWS
- TEMPLATES

## WEEK 14

- MODELS
- RELATIONSHIPS
- MIGRATIONS
- QUERYSETS

## WEEK 15

- USER MANAGEMENT
- SESSIONS
- PERMISSIONS
- GROUPS

## WEEK 16

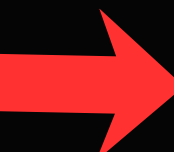
- CLASS-BASED VIEWS
- SIGNALS
- CUSTOM MIDDLEWARE
- FORMS
- FILE UPLOADS

## WEEK 17

- **REST** PRINCIPLES
- SERIALIZERS
- API VIEWS
- VIEWSETS
- ROUTERS

## WEEK 18

- **AUTHENTICATION**
- JWT
- PERMISSIONS
- PAGINATION
- FILTERING



# PYTHON FULLSTACK

## WEEK 23

- EC2 PRODUCTION SETUP
- RDS POSTGRESQL
- SSL
- DOMAIN CONFIGURATION
- MONITORING

## WEEK 19

- API CONSUMPTION
- AJAX
- FETCH API
- AUTHENTICATION FLOW

## WEEK 20

- **CLOUD** CONCEPTS
- EC2
- S3
- IAM
- ROUTE 53
- SECURITY GROUPS

## WEEK 21

- **LINUX** COMMANDS
- NGINX
- GUNICORN
- PROCESS MANAGEMENT

## WEEK 22

- **CI/CD** CONCEPTS
- GITHUB ACTIONS
- AUTOMATED TESTING
- DEPLOYMENT PIPELINES

## WEEK 24

- BY THIS TIME YOU WILL BE HAVING ATLEAST **5 PROJECTS** IN YOUR PORTFOLIO.
- NOW WE WILL START WORKING ON OUR FINAL PROJECT AND PARALLELY WE WILL BE WORKING WITH **FREELANCE** CLIENTS AS WELL.

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READY TO BUILD THE  
**CAREER** YOU  
DESERVE?

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