



alx



Back-End Web Development Programme

6 Months (20 hrs per week)

What is Back-End Web Development?

The programme is a comprehensive 18-week part-time venture, aiming to equip learners with the skills needed to construct robust server-side solutions through practical exposure to server, database, and application logic for the development of dynamic web applications.

Why Back-End Web Development?

In response to the industry's growing need for adept backend developers, this programme presents a flexible learning pathway for individuals eager to explore server-side programming and database management.

Programme Objectives

- Gaining proficiency in backend languages, frameworks, and databases.
- Mastering RESTful API design, authentication, and server deployment.
- Building and deploying a fully functional web application.

Technologies and Concepts Covered

- Backend language (Python)
- Web Framework (Django)
- Database management with SQL (e.g., MySQL) and NoSQL (e.g., MongoDB) databases.
- REST API, Authentication, and other backend concepts.

Why Choose Us?

ALX Foundations

Before starting the Back-End Web Development programme, learners complete our 8-week foundational training, acquiring vital skills like self-awareness, teamwork, communication, and critical thinking, essential for success in tech.

Hands-on Learning

Focused on practical application through project-based learning, facilitating the direct application of theoretical knowledge to real-world scenarios for a comprehensive understanding of concepts.

Mentor Support

Receive guided learning from experienced mentors to navigate through backend challenges, gaining valuable insights and support linked directly to real-world experiences and industry best practices.

Tools Learners Get to Use



VS Code



Git



GitHub



Bash Shell (WSL2,
Ubuntu)

6-Month
Programme

100%
Digital (Online)
Learning
programme

20 hrs
Per Week

Professional Foundations Schedule

08 Weeks (20-30hrs / week)

What is Professional Foundations?

- A career-readiness training module to kick-start your ALX learning journey before moving on to your chosen specialisation.
- Learn exceptional communication, teamwork, and leadership skills that make ALX graduates top picks in the job market.
- Be ready for a real-world career with soft skills that keep you ahead in the rapidly changing tech industry.

Weekly Content

Week 01	Week 04	Week 07
<ul style="list-style-type: none">• Getting Started• Habits for Developing Intrapersonal Intelligence• Onboarding & Programme Overview• The ALX Fellowship• Values & Community• GCGOs for Africa	<ul style="list-style-type: none">• Meditation• Goal Setting• Communication for Impact• Creating Presentations & Technical Writing• Communication in Tech Teams• Design Thinking• Work Planning	<ul style="list-style-type: none">• Personal Reflection on Intrapersonal Growth• Generating Solution• Product Requirements• Pitch Preparation• Powerful Presentations• Identifying Opportunities• Wireframes & Prototypes
Week 02	Week 05	Week 08
<ul style="list-style-type: none">• Movement and Mental Health• Karibu Lessons• Values & Empathy• Exploring African GCGOs• Self Awareness & Emotional Intelligence• Growth Mindset & Grit• Self Regulation & Improvement• Time Management	<ul style="list-style-type: none">• Boosting Intrapersonal Intelligence• Problem Definition• Teamwork Best Practices• Agile Technology Teams: Roles & Processes• Research & Data Gathering• Data Cleaning & Preparation• Data Visualization• Identifying Opportunities• Generating Solutions• Understanding the Market	<ul style="list-style-type: none">• Committing to your Intrapersonal Growth• Elevator Pitch• Professional Bio• Exploring Tech Tracks• Resume Writing• LinkedIn Profiles• Interview Skills• Personal Brand & Bio• Career Skills
Week 03	Week 06	
<ul style="list-style-type: none">• Morning Pages for Personal Reflection• Habit Formation• Goal Setting• Defining Problems & User Stories• Problem Solving• Asking the Right Questions• Research Methodology & Ethics	<ul style="list-style-type: none">• Refresher on Habits for Intrapersonal Intelligence• Understanding the User• User Interviews• Intro to Wireframes & Prototypes• Teamwork & Team Communication• Conflict Management & Negotiation• Generating Solutions & Making Decisions• Human Centered Design	

Weekly Specialisation Schedule

- **Project releases:** Projects are released on Mondays and ends by end of Sundays
- **Live learning sessions:** Twice weekly live learning sessions. Learners will be introduced to the projects for the coming week during the first session and then there will be a deep dive into the concepts during the second session.
- **Peer learning days:** There is a dedicated day for learners to connect with one another and study together.

Weekly Content

Week 00: Onboarding and introduction to web

Week 01: Version control

Week 02: Command Line Basics

Week 03: Introduction to Python

Week 04: Introducing Logic into programming (Control flow and loops)

Week 05: Functions, Data Structures & Modules

Week 06: Programming Paradigms & Exception handling

Week 07: More about OOP

Week 08: Introduction to Databases



Week 09: Introduction to Django

Week 10: Deep Dive into Django Models and Views

Week 11: Advanced Features and Security

Week 12: Introduction to Building APIs with Django REST Framework

Week 13: Advanced API Development with Django REST Framework

Week 14: Building a Complete Django Application

Week 15: Building and deploying a Django API

Week 16 & 17: Capstone Project

YOUR LEARNING JOURNEY



Kickstart your career in Tech

85% of learners find a job after 6 months with a certificate of completion.

LAUNCH



By learning from industry experts

Our instructors are fully-vetted with industry experience.

1

And developing your professional foundations

Get a professional portfolio and skills for better employability.



2

Gaining work ready skills

Learn up-to-date tech innovations with real-world projects.

3

In a state-of-the-art learning environment

Network, collaborate and co-work with peers online or offline.

4



With support from your peers.

Our alumni get access to our Fellowship community and events.



5

**GET
STARTED**
apply now

6





2024 Calendar

Programme - Cohort #	Application Deadline	Onboarding Starts	Programme Starts
Back-End Web- C1	27 Feb	11 Mar	18 Mar
Back-End Web - C2	28 May	10 Jun	17 Jun
Back-End Web - C3	2 Jul	15 Jul	22 Jul
Back-End Web - C4	20 Aug	2 Sep	9 Sep

DISCLAIMER: Please be aware that the dates provided are subject to change and are intended as a reference for your planning purposes, please refer to the website for date confirmation.





Frequently Asked Questions

What is the criteria for being accepted?

Accepted applicants are evaluated based on their entire application, including assessment scores and essay responses. While the outcome may not always meet expectations, we encourage self-reflection, identifying areas for improvement, and ongoing skill development. For future programme applications, please revisit our website during the next cycle.

I applied and received confirmation, but I haven't received an acceptance letter.

The confirmed button in your email indicates your acceptance.

Are there any fees apart from the administration fee?

The tuition fee for our programmes starts at \$7500. For sponsored applicants, this fee is waived, and only the administration fee is required.

I want a waiver or scholarship, and I am unable to pay the administration fee.

Regrettably, we cannot accommodate this request presently. The administration fee supports programme access, study materials, community engagement, networking, and certification. Paying it demonstrates commitment and ensures access to all resources and support for success.

How do I make payment?

All payments can be made via the admissions portal.

I accidentally dropped a programme, and now I can't continue the application.

Unfortunately, dropped applications cannot be continued. You will need to apply to another programme or use a different email address.