

# Software Engineering Programme

alx

ALX is focused on helping you get the career-ready skills as well as the technical capabilities to help you kickstart your future in some of the most in-demand fields that employers are looking for right now.

Being a member of the SE programme provides an agile learning environment that is focused on getting you started with the basics of software development and engages you in a variety of technical projects to increase your knowledge base and employability potential.

The programme is designed to equip you with two core skill sets:

## 1 Technical skills

Hands-on experience in developing software as well as establishing theoretical foundations, and

## 2 Soft and Professional skills

Just the right amount of work-ready skills that could ensure you are connected to paid opportunities faster.



### Projects

Work on projects alongside peers to build your programming muscles



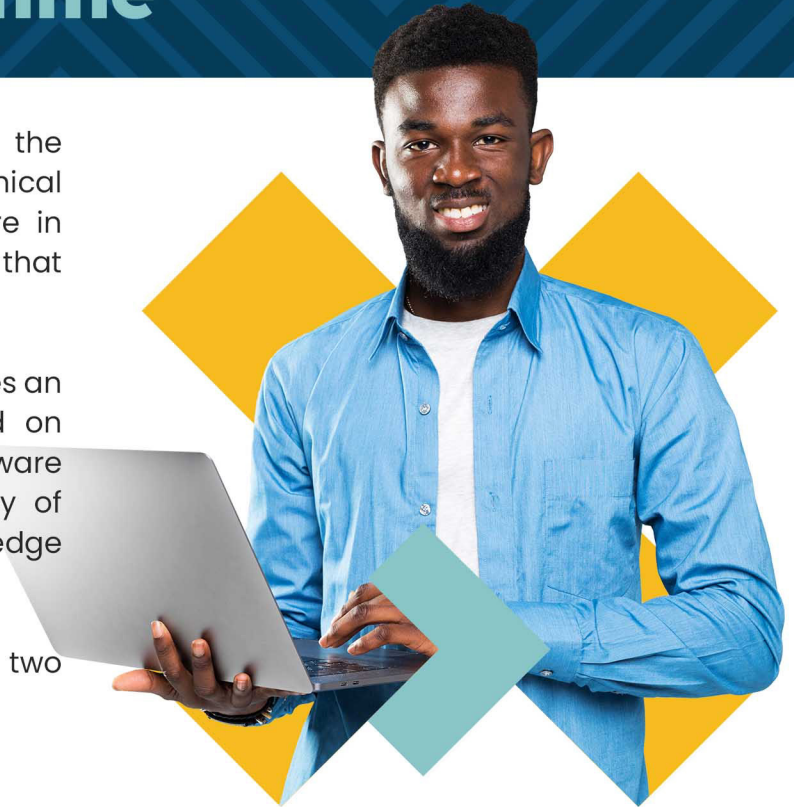
### Basics

Kickstart your Software Engineering journey by engaging with foundation programming resources.



### Community

Be a member of a strong community of impact-driven doers and builders



Through this programme, your experience will ensure that you:

- 1 Become a member of an elite growing community network of resourceful and in-demand software engineers,
- 2 Engulf yourself in a learning environment that trains technology enthusiasts with the basics of Software technology regardless of your experience and background.
- 3 Grow and contribute your employability potential through up-to-date technology knowledge and access to a pool of technical mentors who are committed to seeing you succeed.

In 12 months, you will discover a new career path that could contribute to the development of your immediate communities as you acquire the necessary developer skills in your quest to build functional projects.

We want you will be a part of a growing pool of top talent spearheading software engineering in Africa by being connected to paid opportunities from wherever you are.



# Stats

## Graduation expectations:

To graduate from the programme, learners need to achieve an average score of 80% in the foundations stage and have assigned specialization tracks to them.

You must be active on the intranet by:

- Completing 80% of the projects in all the 3 sprints.
- Achieve an average score of 30% on each project per sprint.

## Platforms Being Used:

- 1 Slack** - our community platform to engage with peers and get access to technical mentors
- 2 The Intranet** - our learning, communication and engagement platform used to provide learning resources, engage with students and provide support.

## Programme Structure:

### FOUNDATION (9 MONTHS):

- 1** Understand programming languages and Unix system work or "what is going on under the hood".

- 2** Create a complete web service from databases, back-end and an amazing front-end website with the latest technologies.

### SPECIALIZATION (3 months):

Create a complete web service from databases, back-end and an amazing front-end website with the latest technologies.

### 12-month Programme

**100% Digital (online) learning experience**

**~70 hours Per week**

**4 learning sprints** divided into 12-weeks

**100% programme fees waived for 2022**

### Squad-based community

each squad has about 50-100 talented people on Discord

## Core Curriculum Content:

- C Programming
- Graphic Programming
- Unix Programming
- Data Structure & Algorithms
- Reverse Engineering & Security
- Python
- Front-end dev
- Linux/command line
- Infrastructure Design & Management