African Digital Solutions to the Education Challenge of COVID-19

Fred Swaniker
29th September 2020
500 Million
Constraints drive innovation
Africa

The rest of the world
We’ve done this before

2000

16.5 Million Mobile Users
In 2000, Sub-Saharan Africa as a whole had fewer telephone lines than Manhattan alone

2019

475.8 Million Mobile Users
Africa is the world’s leader in mobile-money penetration rates.
What challenges do we face when scaling education?
We all learn in different ways and yet education tailored to be one-size fits all.

Learning is centered around a scarce resource: teachers.

High quality education increases with cost.

The quality also decreases with scale & becomes harder to track.
How can tech solve these challenges?
Personalized Education

We can create personalized education that is tailored around a student's own development.
Fewer resources:
Greater Reach

With technology, 1 teacher can reach many more students locally, nationally and even globally!
Higher quality: Lower costs

As technology improves, the costs will also significantly reduce over the years.

- **CD Album**: $18.52
- **60 Million Songs**: $2.99
- **Computer**: $95,000 in 1972
- **Laptop**: $200 Today
Technology allows us to collect and track data on education outcomes, but also data on how teachers are performing. The use of heat maps can allow us to track education outcomes across different states and cities.
How have we been doing it at ALG?
Growing over last 5 years

- 2015: ALU Mauritius
- 2016: ALUSB, ALU SOWC
- 2017: ALU Rwanda
- 2018: ALX Nairobi, ALX AIIP
- 2019: ALX Johannesburg, ALX Lagos, ALX Casablanca, ALX Dakar
Our growth: **Over the next 5 years**

Leaders Graduated (Projected growth Pre-Covid):
- 2020: 1,645
- 2021: 3,512
- 2022: 6,768
- 2023: 12,872
- 2024: 21,470

Leaders Graduated (Projected growth After Covid):
- 2020: 500
- 2021: 25,000
- 2022: 50,500
- 2023: 150,500
- 2024: 350,500

ALG Locations:
- 2020: 8
- 2021: 12
- 2022: 18
- 2023: 28
- 2024: 33

A Hybrid model of both digital and in-person learning.
Reducing cost, increasing scale

Annual Cost to Attend

ALA $30K
ALU Mauritius $15K
ALU Rwanda $7K
ALX $2K
ALX + ISA $0

250 Students
3 Million Leaders
ALU: An innovative learning model

DISCOVER
Realize what you don’t know and what you need to learn

FACILITATED GROUP LEARNING
Apply & extend your learning to other contexts and wider problems

INDIVIDUAL
Learn at your own pace and in your own way

PEER LEARNING
Learn from others who have learned it and can explain it to you
# ALX:
Empowering young leaders

## Digital Launchpad
*(6-8 Months)*

- Self-paced and structured around competencies. Centers on 8 meta-skills.

<table>
<thead>
<tr>
<th>Meta-Skills</th>
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<tbody>
<tr>
<td>Effective Communication</td>
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<tr>
<td>Critical Thinking</td>
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<td>Systems Leadership</td>
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<td>Leadership</td>
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<td>Self Leadership</td>
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<td>Data-Based Decision-Making</td>
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<td>Planning &amp; Execution</td>
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<tr>
<td>Innovation &amp; Entrepreneurship</td>
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## Pathways
*(+ Months)*

- Choose your adventure.

- Entrepreneurship
- Digital Economy
- Adaptable Workforce

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6+ Month Intensive Program = Unlock Potential and Launch Career
ALU School of Business:
A fresh approach to business education

<table>
<thead>
<tr>
<th>Term Themes</th>
<th>Business &amp; Leadership Foundations</th>
<th>Management Perspectives</th>
<th>Advanced Business &amp; Management Application in Africa</th>
<th>Learning Channels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Term 1</td>
<td>In-person Intensive #1 (Kigali, Rwanda)</td>
<td>Harvard Business School Online Coursework</td>
<td>McKinsey Academy Online Coursework</td>
<td>In-person Intensive #1 (Kigali, Rwanda) Harvard Business School Online Coursework ALU Online Coursework</td>
</tr>
<tr>
<td>Term 2</td>
<td>In-person Intensive #2 (Kigali, Rwanda)</td>
<td>Wharton Business School Online Coursework</td>
<td>ALU Online Coursework</td>
<td>In-person Intensive #2 (Kigali, Rwanda) Wharton Business School Online Coursework ALU Online Coursework</td>
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<tr>
<td>Term 4</td>
<td>Strategy &amp; Vision</td>
<td>Leading with Impact</td>
<td>In-person Intensive #5 (Kigali, Rwanda)</td>
<td>In-person Intensive #4 (Kigali, Rwanda) McKinsey Academy Online Coursework ALU Online Coursework</td>
</tr>
<tr>
<td>Term 5</td>
<td>Leading with Impact</td>
<td></td>
<td>Capstone Project</td>
<td>In-person Intensive #5 (Kigali, Rwanda)</td>
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Learning Channels
- In-person Intensive #1 (Kigali, Rwanda)
- Harvard Business School Online Coursework
- ALU Online Coursework
- In-person Intensive #2 (Kigali, Rwanda)
- Wharton Business School Online Coursework
- ALU Online Coursework
- In-person Intensive #3 (Kigali, Rwanda)
- McKinsey Academy Online Coursework
- ALU Online Coursework
- In-person Intensive #4 (Kigali, Rwanda)
- McKinsey Academy Online Coursework
- ALU Online Coursework
- In-person Intensive #5 (Kigali, Rwanda)
- Capstone Project
Holberton: The next generation of software engineers

About

“Holberton provides a high quality, computer science education at scale, for anyone, without the limitations of traditional education.”

Our Partnership

- **Cost**: $250/year for programming
- **Software Development skills**: Leverage online learning platform for teaching programming skills
- **Duration**: 12 month program
- **Focus**: Digital Economy
- Equip young Africans with demanded programming skills, to compete in the global job market

<table>
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<tr>
<th>Holberton students early Career Pay</th>
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<tbody>
<tr>
<td>Holberton</td>
<td>$107,000</td>
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<tr>
<td>Stanford University</td>
<td>$105,000</td>
</tr>
<tr>
<td>University of California Berkeley</td>
<td>$102,800</td>
</tr>
<tr>
<td>Yale University</td>
<td>$101,800</td>
</tr>
<tr>
<td>Dartmouth College</td>
<td>$100,000</td>
</tr>
<tr>
<td>California Institute of Technology</td>
<td>$98,800</td>
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Our impact so far

2000+
Young Leaders developed

4.5/5
Average rating from managers

200+
Ventures created by alumni and students

More than 2,500 placements to date
What they are saying...

"My optimism about the future of Africa — and indeed the world — was reinvigorated by the remarkable stories of success that came from this inaugural class." Congratulations to all of the graduates at The African Leadership University. I can’t wait to see what you achieve next.

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The Harvard of Africa

The New York Times | 1 of 8 Places In The World Where History Is Being Made

TIME | Fred Swaniker named "Most Influential People of 2019"

FAST COMPANY | #39 Most Innovative Company in The World, #1 in Africa

gatesnotes | How to unlock the talents of young Africans.
Lessons and Insights from the journey
Tech is not the main issue to solve, it’s more about the mindset and pedagogy
70:20:10 Learning Model

- **70%**: On the Job Experience
- **20%**: Mentoring & Coaching
- **10%**: Classroom, Courses & Reading
We need to think differently about assessments.

<table>
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<th>Bloom’s Taxonomy of Learning</th>
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<tbody>
<tr>
<td><strong>Create</strong></td>
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<tr>
<td>Combining parts to make a new whole</td>
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<tr>
<td><strong>Evaluate</strong></td>
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<tr>
<td>Judging the value of information or ideas</td>
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<tr>
<td><strong>Analyze</strong></td>
</tr>
<tr>
<td>Breaking down information into component parts</td>
</tr>
<tr>
<td><strong>Apply</strong></td>
</tr>
<tr>
<td>Analyzing the facts, rules, concepts and ideas</td>
</tr>
<tr>
<td><strong>Understand</strong></td>
</tr>
<tr>
<td>Understanding what the facts mean</td>
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<tr>
<td><strong>Remember</strong></td>
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<tr>
<td>Recognizing and recalling facts</td>
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Teachers are still crucial to our learning
What’s needed?

Leadership

Broadband

Electricity
Progress is possible but not inevitable

Bill Gates