

OPEN SOURCE FESTIVAL 2020

# NEXT BILLION CREATORS



Share your experiences on social media using the **#OSCAFest** hashtag.

 @oscafrica

 [www.facebook.com/oscafrica](https://www.facebook.com/oscafrica)

 <https://festival.oscafrica.org>



## Digital Schedule

Would you like to access the Open Source Festival schedule online? Check out the **Sched** directory: [oscafest.sched.com](https://oscafest.sched.com)

# The **1st** **Open Source** **Conference** in Africa

**5** Welcome

**7** Conversations in  
Open Source

**9** Keynote  
Speakers

**14** Thursday  
(SustainAfrica)

**18** Friday

**20** Saturday

**23** Sponsors

# Open Source Festival 2020

The 1st Open Source Conference in Africa + SustainAfrica event.

Theme:



## The Festival

Open Source Festival is a high profile event that is expected to attract student delegates, developers, designers and corporate organizations on a large scale with series of talks, workshops, and awareness of open-sourced developer tools.

The maiden edition is going to be a forum for networking, discussions and ideas proration around latest happenings in technology as well as the growth of open source in Africa.

Through this festival, we intend to move Africans from just the billion users to the NEXT BILLION CREATORS.

## OSCA

Open Source Community Africa is a community aimed at creating and supporting the open source movement within Africa. As a community, we intend to help integrate the act of open source contribution to African developers whilst strongly advocating the movement of free and open source software.

Globally, open source technologies are driving the future as the most widely adopted tools for building disruptive and innovative solutions to current global issues. The budding Open Source Community Africa is serving as the platform where the next generation of innovators & solution-providers across the African continent would be birthed from.

## Welcome Letter from **Samson** Goddy



I am very pleased to be with you for the opening of the first Open Source Festival tagged, 'Next Billion Creators'. As the co-founder, I am honoured that you were able to come from various parts of Africa and beyond to attend the Open Source Festival. This community is significant as it was created for Africans and by Africans, to expand the culture of open source across the continent.

The Open Source Festival 2020 is one of a kind. It is designed to allow you to see more than just writing codes or making your first pull requests. It is a place to know what is possible and to guide you on the right path of becoming a steady and active open source maintainer or sustainer.

The Open Source culture is essential to everyone; it is beyond code. It needs you and your skill sets. Today you will learn and network more with folks that you haven't seen before; developers, designers, tech enthusiasts and so many others. I ask you to take advantage of this chance to make sure you have as much information as possible. Make new friends, come to say hi to me if possible. I don't bite!

The Open Source Community Africa (OSCA) team once again, welcomes you to the first of its name, the unburnt, the protector of OSS in Africa, the Open Source Festival.

Thank you.

Co-Founder, Open Source Community Africa

Conversations in  
**Open Source** 



## Open Source Design in Africa: The Advent, Peculiarities & Prospects

**Peace Ojemeh**

Founding Member/Design Lead, Open Source Community Africa

The conversation of open source design is one which stays budding, within and across the African continent, having efforts from design leaders, enthusiastic about the synergy of open source and design.

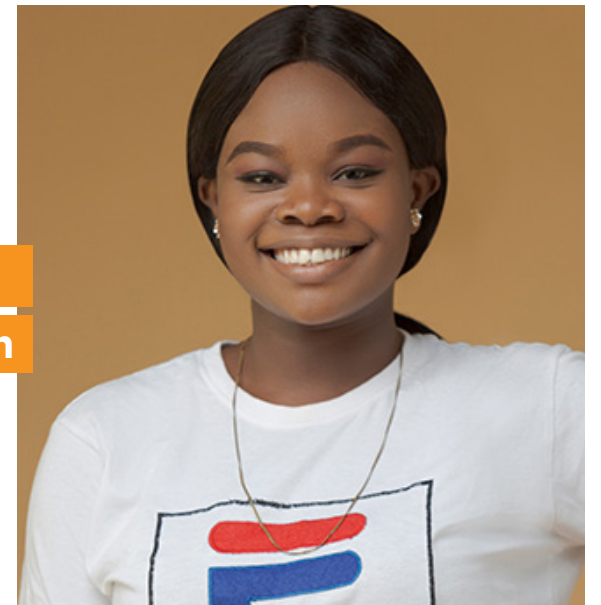
Generally, it is significant to note that Africa imminently possesses a pool of design talents who are not conversant with the fact that they can contribute to open source software/projects; only one out of a lot are, and are currently participating in open source advancement, hence, this conversation.

The theme of design in open source cognitively highlights the introduction of a user-centric approach, as regards the interface & experience of open source software. This refers to the efforts initiated that see usability of open source projects being backed with a seamless experience for users. Most important amongst the uniqueness of open source design, is the fact that it allows for sustainability of the project, as users would stay committed, owing to the usability & experience provided.

Design in open source is growing rather significantly, than rapidly in Africa, providing it the much needed attention it requires. With the advent of Open Source Community Africa (OSCA), we're advocating & intend to create a conducive atmosphere for designers to effectively contribute to the movement of free & open source software. The Open Source Community Africa plans to drive responses to issues pertaining to the non-acceptance of design contributions, constraints of open source design tools, and ensure of a culture of inclusiveness for designers to thrive.

To kick start this movement, we're building a community of designers, and imbibing in them, the necessary skills they require to function in the open source space. We are making conscious efforts to initiate projects, and also see that projects initiated, duly factor in the place of designers. We're initiating & highlighting the benefits, designers stand to benefit from contributing to open source.

We understand the amount of time and the degree of efforts necessary to actualize these goals, and standing on the consciousness that the future of technology is open source, we believe that with the initiation & contribution of open source design, the future of open source will be insured as the future of technology.



## Enabling Gender Diversity and The Rise of African Women in Tech

**Ada Nduka Oyom**

Co-Founder, Open Source Community Africa

In 2017, a survey carried out on open source projects on Github to access the diversity of contributors, reported a wide gap in the gender ratio, having 95% of contributors as men and only 3% as women. Results from this survey showed a large drop from the 2002 survey which reported 10.4% of women contributors. (Source: Wikipedia)

Globally, one of the predominant issues currently being faced across all fields in tech continue to be the wide gender gap between men and women in tech, with its effect being doubled down within the open source community i.e. if 10 women were actively involved in tech, only 2-3 of these women also get to identify as active contributors or advocates of open source (mostly non-technical roles of the field). Intense activities and involvements in tech have picked up over the years within Africa, giving it the much needed global recognition for the constant contribution, collaboration and uniqueness of its tech talents but even with the aforementioned, just like every other continent, Africa still faces the glaring gender ratio in tech as described above, with a much lower percentage being rounded up for African women who are into open source. This alone puts the continent at a lower disadvantage of exploring opportunities and skill development generally associated within the open source community.

With the birth of Open source community Africa (OSCA), being an African woman in tech, living in Africa, advocating for Africa, open source and gender diversity in tech, all of these, put me and other advocates at the forefront of championing the goal to getting more women, not just into tech, but also actively contributing and advocating for OSS within Africa.

To kick start this movement, we have made conscious efforts to start from the grassroots via this festival and created a larger opportunity for women interested in open source, by partnering with our sister community - She Code Africa - one of the largest women in tech community within Africa.

We set up this opportunity by introducing our diversity scholarship tickets to sponsor 300 ladies (37.5% of total attendees) from various african cities to attend and actively participate in this festival.

We understand and acknowledge the time and efforts our goal would take to achieve and as such have set up a more defined and long term plan to provide more support and an enabling community within OSCA for any woman looking to pursue an interest or career in open source - Women of OSCA. Women of OSCA would be a partner initiative championed by She Code Africa and Open source community Africa to afford more women learning opportunities in open source, a platform to grasp core skills, and navigate technical waters of the field through various activities, initiatives and events planned out annually.

As we continue to grow, more additions would be made to the above in helping bridge the gender gap by reaching one African woman in tech at a time, because together, we rise.



# Keynote Speakers



^ **Aniedi**  
Udo-Obong  
Program Manager, Google

Aniedi is an information technology professional with over 12 years practical experience working with Nigerian startups spanning human resources, media, finance, education, and logistics. He currently manages developer community relationships for Google across West, East and Southern Africa.



^ **Eriol**  
Fox  
Design Lead, Ushahidi

Eriol is a Design Lead who has worked in-house roles for 9+ years. Currently working at Ushahidi, a humanitarian, non-profit technology leader, developing open-source, digital tools to help people with better democratic process, human rights issues, natural and human-made disasters. Eriol is a non-binary, queer person who uses they/them pronouns and an LGBTQIA+ advocate. They are deeply passionate about intersectional inclusion and promoting healthy attitudes towards mental health in the tech sector.



^ **Stephen**  
Walli  
Principal Program Manager, Microsoft

Stephen is a principal program manager in the Azure Office of the CTO at Microsoft. Prior to that, he has been a distinguished technologist (HPE), technical executive, a founder, a consultant, a writer, a systems developer, a software construction geek, and a standards diplomat. He loves to build teams and products that make customers ecstatic. He has worked in the IT industry since 1980 as both customer and vendor, working with open source for almost 30 years. He tweets as @stephenwalli. He blogs at “Once More unto the Breach”, opensource.com, and Medium.

# Keynote Speakers



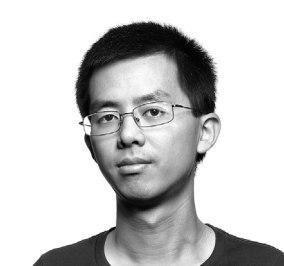
^ **Amanda**  
Casari  
Engineering Manager, Google

Amanda Casari is an engineering manager on the Google Open Source team, where she is leading research and engineering to better understand open source systems. She has worked in a breadth of cross-functional roles and engineering disciplines for the last 18 years, including developer relations, data science, complexity science, and robotics. She creates projects and programs to make the data world more responsible and approachable, recently co-authoring the O'Reilly book, Feature Engineering for Machine Learning Principles and Techniques for Data Scientists. Amanda is endlessly fascinated by the difference between the systems we aim to create and the ones that emerge.



^ **Gen**  
Ashley  
Founder, Tech(K)Now

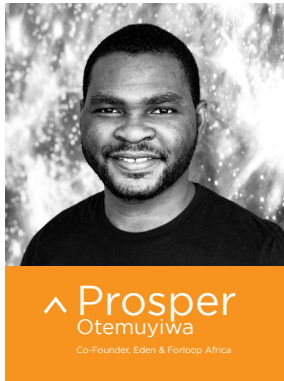
Gen is the Founder of TECH(K)NOW Day - a conference focused on Women in Technology. She is a very active leader in the Tech community in London and is an Ambassador for Google Women Techmakers. She is also a lead for NASA Space Apps Challenge London, Twitter Developer Community London and Google Developer Groups London. She was the Head of Developer Outreach at Skills Matter and a former VP / Business Development Manager / Project Manager at Citigroup. She was recently awarded as MVP (Most Valuable Professional) by Microsoft and as Director of Women Who Code London built up a community of around 6000 women in tech.



^ **Henry**  
Zhu  
Maintainer, Babel

Henry Zhu is a steward of the community funded project, Babel. He hosts 2 podcasts, Hope in Source and Maintainers Anonymous. He's based in NYC and likes Korean BBQ, ping pong, and board games. He works full time in the intersection of technology and faith, primarily through open source.

# Keynote Speakers



Prosper is continuously in awe of technology and human interaction. He's committed to breaking complex problems into understandable and sizeable bits, solving daily human challenges with technology, build better communities and inspire people.

He serves as a Developer Advocate, and is a Community Builder, Professional Trainer, Prolific Writer, Technology Advocate and creator of intuitive, interesting and impactful technology solutions.

# Keynote Speakers

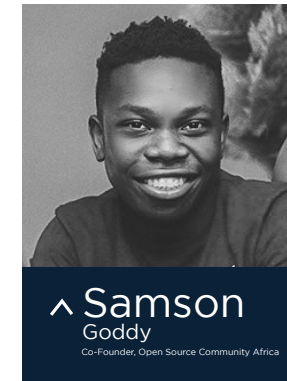


Moyinoluwa is an Android Engineer who enjoys exploring the latest technologies in Android Development. She loves sharing her knowledge by writing technical articles as well as speaking at developer events. She also cares a lot about building apps that look good and work well on all devices.

While she's not doing any of these things you'll most likely find her with her nose in a good book, learning German or trying to beat her personal best for a marathon.

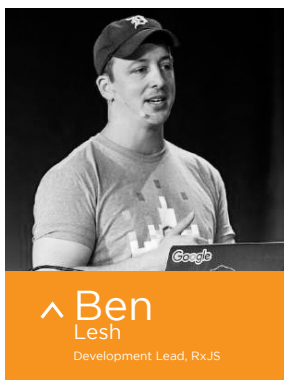


Marlene is a PSF Director and the co-founder of ZimboPy, a Zimbabwean non-profit that empowers women to pursue careers in tech. Marlene is also the current chair of Pycon Africa, the first pan-African gathering of the Python community. She currently lives in Harare and has played an active role in assisting the growth of Python communities both locally and across the continent for the past three years.

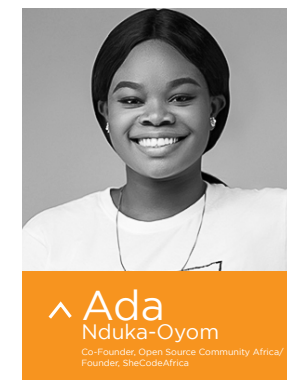


Samson Goddy is a member at Sugar Labs. He started using Linux at the age of nine from the One Laptop Per Child (OLPC) program. He started playing with Python because of the influence of Sugar Desktop.

In 2018, he founded Open Source Community Africa(OSCA) to drive the movement of open source within Africa. Working with the International Telecommunication Union (ITU), UNWomen Coding & Robotics and African Union to train African Girls on Technology primarily focused on programming. He is primarily advocating for open source and serves as a member of the Open Source Initiative and very passionate about education.



Ben Lesh is the development lead for RxJS, a very popular open source library for reactive programming with JavaScript. Ben is quite the inspirational engineer. His JavaScript abilities easily place him among the best engineers. His knowledge of UI and UX has also been key to his success.



Ada is a software developer and a staunch developer advocate with interests in web technologies, who loves to take up technical and non-technical challenges that spur her interests and prove to make a positive change.

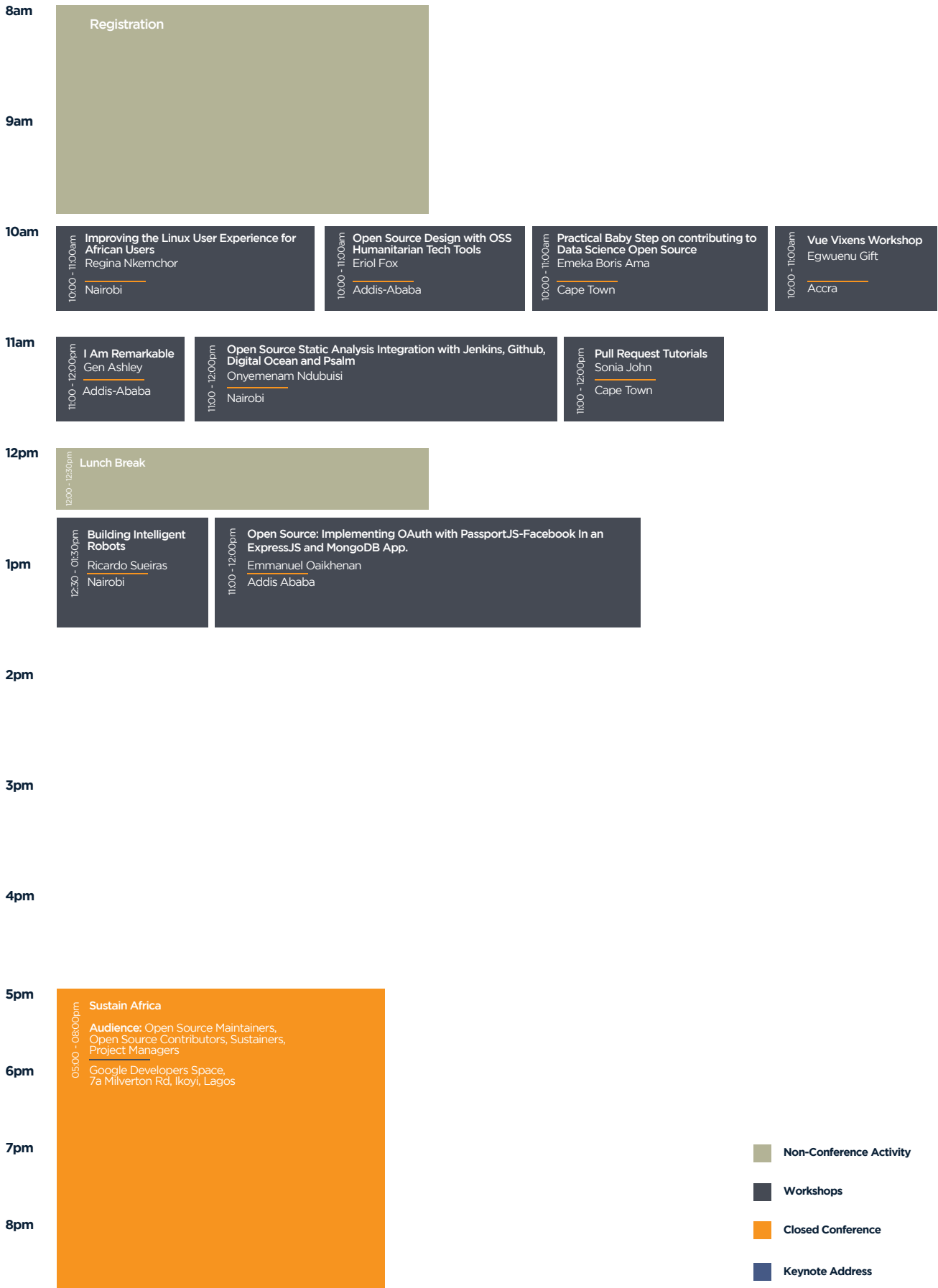
Asides web technologies, she also has a strong passion for Open source technologies and acts as an advocate for open source development in Africa, through her co-founded community for open source advocates and enthusiasts: Open Source Community Africa.

With huge interests in building developer communities and improving developer relations, she also writes technical articles and gives speaker talks on technical and non-technical topics while also excited to participate in matters bordered around Women in technology through her self-founded women in tech organization: She Code Africa.

# Event Schedule







11:00 - 12:00pm

Open Source Static Analysis Integration with Jenkins, Github, Digital Ocean and Psalm

Nairobi

Quality assurance is of great importance in software projects. With many contributors, it becomes a burden for open source projects to depend entirely on manual code reviews to keep up with code quality. This workshop highlights how projects can ensure code quality using Static Analysis Integration. Static Analysis tools, check for and detect errors within a code base without running the code. When integrated into a projects CI/CD they can detect subtle code errors that would otherwise be missed by manual code review. This saves review time for both project contributors and reviewers as contributors see errors within their commits once they make a pull request and then fix them. This also serves as a means for quality assurance. This workshop will involve integrating a static analysis tool(Psalm) as part of the continuous integration workflow for a Github project. The Technical requirements are as follows Internet access, Github Account, Server space(Digital ocean droplet recommended). All of these can be gotten for free.

Facilitator:  
Onyemenam Ndubuisi

12:30 - 01:30pm

Building Intelligent Robots

Nairobi

In this workshop you will learn how to build a simple robot using AWS RoboMaker and how you can then use high level AI services such as vision to quickly integrate AI capabilities into your robot. This workshop will require attendees bring a laptop and have an AWS account.

ROS (Robotics Operating System) is the open source project that allows developers and builders to quickly develop robotic applications and bring modern application development techniques to the field of Robotics. In this session, I will outline a brief history of how robotics have traditionally been developed, and then explore how the open source project ROS has enabled hundreds of companies and academia to accelerate innovation in this field. I will then talk about AWS RoboMaker, which is a service that allows developers and roboticist to take advantage of ROS, and allows them to integrate robots into the Cloud to take advantage of capabilities such as A.I vision and voice. I will run a workshop to get attendees started on how to do that, and how they can then use this when building their own robots.

Facilitator:  
Ricardo Sueiras

12:30 - 01:30pm

Open Source: Implementing OAuth with PassportJS-Facebook In an ExpressJS and MongoDB App.

Addis-Ababa

Facilitator:  
Emmanuel Oaikhenan

11:00 - 12:00pm

Pull Request Tutorials

Cape Town

Pull requests let you tell others about changes you've pushed to a GitHub repository. Once a pull request is sent, interested parties can review the set of changes & discuss potential modifications. The accuracy of PRs enables teams to make the necessary changes to improve a solution or product.

In this workshop, we'll cover various topics related to creating, reviewing and merging pull requests for beginners, contributors, and maintainers. We'll discuss how to describe the: - Motivation and context of pull request - Tests you've done, how to recreate the issue and screenshots if appropriate - Types of changes eg: bug fix, new feature or breaking change - The checklist you followed in creating the change. We'll also cover how to report sensitive security flaws that can not be shared in a pull request. For maintainers will discuss how to: - Accurately review pull requests and give constructive feedback - Define your projects merging policy - some example "We only accept pull requests after the matter has been discussed thoroughly in an issue"

Facilitator:  
Sonia John

05:00 - 08:00pm

Sustain Africa

Google Developers Space,  
7a Milverton Rd, Ikoyi, Lagos

Sustain Summit is a one-day conversation for Open Source Software Sustainers. We would be talking about Sustainability - the sustainability of resources and the sustainability of its people.

The conversation around the comprehensive overview of how FOSS is developed, maintained, utilized, and providing a roadmap for solving the cultural, financial, and institutional issues among open source project maintainers continues to be the focus of Sustain. It will be expressing discussed at the #SustainAfrica summit at the Open Source Festival.

At the Sustain Africa summit, there would be no keynotes, talks, or sponsor demos. Your undivided attention will be required. Phones and laptops will not be used throughout, and you will be asked to put devices away if they are a distraction to you or anyone else, as facilitators take you through the journey of Open Source Sustainability.

Full details & agenda: <https://festival.oscafrica.org/sustain-africa>





**8am**

Registration

**9am**

09:30 - 09:35am  
Becoming a stand-out contributor  
Amaechi Amarachi  
Lagos

09:35 - 09:40am  
Designers can be OpenSourcerers Too  
Abigail Makolo  
Lagos

09:45 - 09:50am  
My Open Source Story  
Carol Musyoka  
Lagos

09:50 - 09:55am  
Leveraging Open Source Technologies to build Better Products  
Kelvin Gobo  
Lagos

09:55 - 10:00am  
How to improve the way you write code by contributing to Open Source  
Kelvin Gobo  
Lagos

**10am**

10:00 - 10:05am  
Increasing your value within your team  
Ignatius Ukwuoma  
Lagos

10:05 - 10:10am  
Community Growth on DevCareer  
Akintunde Sultan  
Lagos

10:10 - 11:00am  
Keynote Speech by the Open Source Team  
Samson Goddy, Ada Nduka Oyom, Peace Ojemeh, Bolaji Ayodeji, Edidiong Asikpo  
Lagos

**11am**

11:00 - 11:25am  
Keynote Speech  
Marlene Mhangami  
Lagos

11:25 - 11:50am  
Succeeding with Open Source  
Aniedi Udo-Obong  
Lagos

11:50 - 12:15pm  
Keynote Speech  
Eriol Fox  
Lagos

**12pm**

12:15 - 12:40pm  
Facebook Keynote  
Chimdi Aneke  
Lagos

12:40 - 01:40pm  
Lunch Break

**1pm**

01:40 - 02:05pm  
Keynote Speech  
Stephen Walli  
Lagos

**2pm**

02:05 - 02:30pm  
Keynote Speech  
Amanda Casari  
Lagos

02:30 - 02:55pm  
Keynote Speech  
Ben Lesh  
Lagos

02:55 - 03:20pm  
Keynote Speech  
Prosper Otemuyiwa  
Lagos

03:20 - 03:50pm  
The Web We Want  
Adewale Abati, Egwuenu Gift, Ekwunoro Obinna, Ada Nduka Oyom  
Lagos

**3pm**

**4pm**

**5pm**

**6pm**

**7pm**

**8pm**

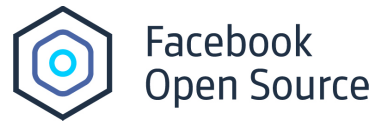
**Legend:**

- Non-Conference Activity
- Workshops
- Closed Conference
- Keynote Address
- Lightning Talks
- Competition

## Sponsors

The Open Source Community Africa is proud to have its flagship festival sponsored by the following organizations.

### Headline



### Diamond



### Gold



### Silver



### Bronze







# Open Source

## Festival 2020