



**Nairuby**

**In Collaboration with BantaMik and  
African Nazarene University  
Brings you  
RUBY CONFERENCE KENYA 2016**

Programme

**THEME**

**“Nurturing Entrepreneurship through Open Source Culture”**

**Dates: 5<sup>th</sup> May 2016 to 7<sup>th</sup> May 2016.**

**Venue: Jernigan Hall, African Nazarene University**

**Website: <http://rubyconf.nairuby.org/2016>**

## **1.0 Introduction**

Ruby Conference brings entrepreneurs, developers, open source contributors, and conference speakers from all around the world for a 2-day conference. Why? We believe in a holistic approach we would solve so many problems through entrepreneurship approach “Solution approach” and open source approach. This in return empowers everyone who attends with technology “tool” and entrepreneurship “Methodology” to reach their fullest potential and inspire the rest of the world and their communities.

Finding the complete solution for Africa will involve many different parties and many different techniques. Open source culture must be included in that toolkit to spur growth, innovation, and upliftment. By investigating their respective indicators in socio-economics, ICT penetration, and business environments, countries can determine which open source approach and practices suits them the best. Not every country will pursue the same open source and tool path, however, finding that best fit for each country’s need should be a critical area of focus for open source experts in the years to come.

Nairuby is a community organization made of developers, entrepreneurs and freelancers. In terms of development the community focuses on ruby technologies and frameworks, which are all open source and widely used by startups to prototype and carry out proof of concept with a go to market strategy. The community brings you Ruby conference every year with different themes to help spur innovation and growth in contribution to global economy.

## 2.0 Schedule

Thursday 5th May, 2016 – Ruby Conference Kenya		
8:00 am - 9:00 am		Registration and Networking Breakfast
9:00 am - 9:45 am		<p>Opening Keynote Presentation</p> <p>Local or International visionary speaker to present to the entire audience on</p> <p>Topic: "Nurturing Entrepreneurship through Open Source Culture"</p>  A portrait of a Black man with short hair and a mustache, wearing round-rimmed glasses and a brown plaid blazer over a black turtleneck. He is smiling at the camera. The background is a bright, modern interior with large windows.
9:45 am - 10:45 am	Speaker	<p><b>Kelvin Mutuma</b></p> <p><b>Topic: CI &amp; CD Demystified</b></p>  A smaller portrait of the same Black man with short hair and a mustache, wearing a dark jacket. He is smiling and appears to be outdoors with greenery in the background.
10:45 am - 11:00 am		<p><b>Break</b></p>

11:00 am - 11:45 am	Speaker	<p><b>Dr. Kendi Muchungi</b></p> <p><b>Topic: Catch Me If You Can: Improving the Perception of Contrast by Introducing the Convergence of Retinal Neurons.</b></p>  <p>I completed a degree in Computer Science at Africa Nazarene University (ANU) (Nairobi, Kenya). After which point I had the privilege of working for ANU in the Registrar's Office as an Administrative Assistant with the responsibility of managing the registration system. After a few years the opportunity to pursue Post Graduate studies at Humber College (Toronto, Canada) for two years arose; The first year as a student and the second as an Intern with The Canadian Imperial Bank of Commerce (CIBC) as a Test Analyst with their Internet Channel Delivery, Quality Assurance, eChannels Department.</p> <p>On completion of my two years, I joined the University of Surrey as a MSc Information Systems student. It was here I realized my passion for research and applied to pursue doctoral studies with the Computing Department. The Faculty of Engineering and Physical Sciences (FEPS) at the University of Surrey gives out two scholarships every year and I was privileged to be one of the recipients in the academic year 2010-2011.</p> <p>My doctoral research is in the field of computational neuroscience and primarily involves computational representation of visual processing within the retina, whilst simulating involvement of retina lateral neurons and allowing the convergence of Rod and Cone systems for the purpose of informing the design and development of retinal prosthesis. At ANU there was a strong emphasis on participating in and growing community, and this has been something I've carried with me to this day. It therefore follows that my journey to date has seen me be involved in, such as to support the development of 'the person'.</p>
11:45 am - 1:00 pm	Speaker	<p><b>Kenneth Kinyanjui (Google Expert)</b></p> <p><b>Topic: Automating Releases for Ruby on Rails Application on Productions Servers</b></p>  <p>Kenneth is a Software Engineer, Mentor and Entrepreneur. He is CTO and Co-founder of Infinity Space Inc., an African Company based in Kenya, France and Cameroon. He has also been a consultant for iHub Consulting in Nairobi. As a GDG country mentor, Kenneth has been helping build the Kenyan GDG Community across the country. An active developer and community manager, Kenneth loves contributing to open source projects, facilitating code labs on Google Cloud Platform and mentoring junior developers</p>
1:00pm - 2:00 pm		<b>Lunch Break</b>
2:00 pm - 2:45 pm	Roundtable	<p><b>Entrepreneurship</b></p> <p><b>Moderator:</b> Martin Gicheru</p> <p><b>Panelists</b></p> <ol style="list-style-type: none"> <li>1. Manoj Changarampatt, Michael Kimathi, Raymond T Hightower, Bernard Banta</li> </ol>
2:45 pm	Speaker	<b>Michael Kimathi</b>

<p>- 3:30 pm</p>	<p><b>Topic: Prototype</b></p>  <p><i>Michael Kimathi has over 7 years experience working in innovative ecosystems and building solutions notably with BlackBerry Developer Community, Nairuby, Masomomoja, GDG, Unbound, University of Nairobi, StartupBlink and BantaMik. When he was 19 he created a simple diagnostic tool using a cardboard, wires, D cell and bulbs to diagnose Cholera, Malaria and Typhoid. When Michael joined Computer science in college he converted this simple solution to a diagnostic system: Features included diagnosis, advising the patient on the closest hospital, pharmacy and drugs available with a price list. Currently, He is an entrepreneur learning from his past failures and developing better solutions, which will impact the world we are living in.</i></p> <p><i>Previously, He was the Community Development Manager at C4DLab, where He worked closely with team C4DLab to develop innovation strategy, Partnership and change the University culture from the old status quo way of doing things to one at the forefront of innovation, he mentored startups, hosted events, organized entrepreneurship mechanics related talks with distinguished industry entrepreneurs. He came to fully appreciate the struggles most of the organizations are going through working on different innovations models while few are getting it right. He has also appreciated the mechanics of innovation such that: "you need the right environment and right culture to make innovation happen".</i></p> <p><i>Competencies: Computer Science Consultant, Impact Innovation scalability, Lean methodology application, Startup Ecosystem Building, Management, Strategy, Knowledge Society Building and Sustainability and System development and Analysis</i></p>
<p>3:30 pm - 4:15 pm</p>	<p><b>Speaker/Case Study</b></p> <p><b>Clement Habinshuti</b></p> <p><b>Case Study: Taka Smart Project Case Study</b></p>  <p><i>Clement Habinshuti is a Computer Science student at the Africa Nazarene University, aspiring entrepreneur, software developer and , most importantly, a dreamer . A part from writing code and learning new things in the field of Computer Science, he also enjoys playing guitar and drawing.</i></p>
<p>4:15 pm - 4:30 pm</p>	<p><b>Break</b></p>
<p>4:30 pm</p>	<p><b>Day 1 Close</b></p> <p><b>Closing Remark</b></p>

8:00 am - 9:00 am		<b>Networking</b>
9:00 am - 10:00 am	Speaker	<p><b>Raymond T. Hightower</b></p> <p><b>Topic: Parallella, Supercomputing and Ruby</b></p>  <p>Ray Hightower is a software developer, open source hardware enthusiast, founder of <i>WisdomGroup</i>, and organizer of <i>ChicagoRuby</i>, <i>WindyCityRails</i>, &amp; <i>WindyCityThings</i>. He has visited every state in the USA and most continents on planet Earth. He studied Computer Science and Engineering at the University of Illinois at Urbana-Champaign, and completed his Bachelors in Computer Science at the University of Illinois at Chicago.</p>
10:00 am - 10:45 am	Speaker	<p><b>Checha Jacob</b></p> <p><b>Topic: The Estimation Process</b></p>  <p>Introduced to programming by a close friend, Alvin abandoned an academic career as an Economist/Statistician for a keyboard and a black screen where he fell in love with ruby and the wonders of rails. His current mission is to transfer this same joy and enthusiasm for coding into the hearts of others.</p>
10:45 am - 11:00 am		Break
11:00 am - 11:45 am	Roundtable	<p><b>Open Source</b></p> <p><b>Moderator:</b> Bernard Banta</p> <p><b>Panelists</b></p> <p>Kelvin Mutuma, Raymond T Hightower, Eugene Mutahi, Kenneth Kinyanjui</p> <p>An interactive and engaging session led by a moderator. Adoption or perception of the open source will be the topic of discussion</p>
11:45 am - 1:00 pm	Speaker	<p><b>Eugene Mutai</b></p> <p><b>Topic: Progressive Web Apps, Entrepreneur's Best Friend</b></p>  <p>Eugene Mutai is currently the only Google Developer Expert in web technologies in Sub-Saharan Africa. He currently works as a software developer/consultant at Andela. He is also the lead of the JavaScript community. His journey, 4 years in, began by learning how to write HTML/CSS using SMSs in a Nokia feature phone, has taken him through varied, intensive and demanding projects that have sharpened his skills, gaining him in-depth knowledge in</p>

		<i>crafting web application of all likes</i>
1:00pm - 2:00 pm		Lunch Break
2:00 pm - 2:45 pm	Speaker	<p><b>Ian Juma</b></p> <p><b>Topic: Using Africa's Talking Unified Mobile Communication APIs with Ruby</b></p>  <p><i>Integrating reliable two-way SMS, Voice and USSD functionality across mobile providers in Africa can be a daunting task for any application developer (speaking from experience..). Our goal is to lower that barrier as much as possible so that clients ranging from multinational companies to budding developers can harness the immense network of mobile carriers in the continent.</i></p>
2:45 pm - 3:30 pm	Speaker	<p><b>Sawo Cliff</b></p> <p><b>Topic: Method Mania: How are method calls formed?</b></p>  <p><i>Sawo is a great lover of code and the amazing things that can be done with it. He has a bias for developing web app using ruby on rails and currently he is the lead code slinger for Blue Gate Technologies. He likes spending his weekends teaching mobile development to GDG M.M.U. His favorite quote, It's not the product, its what you can do with it.</i></p>
3:30 pm - 4:15 pm	Speaker	<p><b>Manoj Changarampatt</b></p> <p><b>Topic: Entrepreneurship – Trends and Branding</b></p>  <p><i>Manoj is a business visionary and an independent consultant specializing in building up brands, ecosystems and executing turn-arounds. He is a key relationship builder and a respected commercial mind in East Africa. He lives in Nairobi and he has experience across East &amp; West Africa as well as the Middle East. Having previously worked with Samsung and Nokia, he has a bias towards telecom and technology ventures but can lend support to companies that require retail and distribution expertise as well. After 25 years of corporate experience, he has delved into entrepreneurship with ventures like SavannaByte.com whilst advising entrepreneurs and startups across Nairobi.</i></p>
4:15 pm - 4:30 pm		<b>Break</b>

4:35 pm - 5:00 pm	Speaker	<b>Closing Session</b> Ruby Chairman, ANU Rep, Techweez Rep
5:00 pm - Onwards	Networking Session	<b>Networking/Entertainment</b>

