

# Mũuo Wambua

## Curriculum Vitæ

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## Education

- 2016–2018 **Masters in Computer Science**, *University of Toronto*, Toronto.  
Member of Computational Linguistics group. Research Focus: Information Retrieval and Natural Language Understanding. Thesis work centered on identifying agreement and contradiction in arguments made during online discourse.
- 2010–2014 **Bachelor of Science in Mechatronic Engineering**, *Jomo Kenyatta University of Agriculture and Technology*, Nairobi.  
Second Class Honours - Upper Division.

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## Experience

### Vocational

- Feb 2018–Present **Machine Learning Engineer**, *Yaar Inc*, Toronto.  
I work in the AI/ML team of a young startup that's building a personal assistant for businesses. Key responsibilities have involved designing and implementing an interactive dialogue system and assisting in the design and implementation of an autonomous web-navigation agent.
- June 2017–August 2017 **Software Engineer**, *Sculler Energy*, Toronto.  
Made functional improvements to a SCADA system used to monitor 10 Solar Farms. Designed and managed prototyping of a remote control system later deployed to over 100 solar-trackers.
- Jan 2015–August 2016 **Software Developer**, *IBM Research*, Nairobi.  
Responsible for development of cloud infrastructure and analytical components for research projects in the IOT space. Lead developer in water-infrastructure management software for Philipines' National Water Resource Board.
- Jan–April 2014 **Intern**, *iHub Research*, Nairobi.  
Worked as an intern in their Research and Development Group. Developed the software and electronics for 'PanyaBot', an award-winning educational robot developed in iHub Research. Aided in the organization and coordination of the iHub's Kid's Hacker Camp and Intel's Galileo Bootcamp and Competition.
- Jan–May 2014 **Software Developer**, *Wezatele*, Nairobi.  
Worked as part of a small team of software developers, implementing web and USSD applications for clients in the e-commerce and micro-finance space.
- May–August 2013 **Independent Contractor**, *Thames Electricals*, Nairobi, Kericho.  
Developed a Human Machine Interface for an existing Plant Monitoring System at Unilever's Jamji Tea Factory.
- Feb–April 2013 **Intern**, *iHub Research*, Nairobi.  
Worked as a Robotics intern, contributing in the development of an automated access control system. Also organized fortnightly robotics meet-ups.

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## Awards and Honors

- The 100: iHub  
Tech-Community  
Appreciation Awards,  
2015  
Received an award for starting the iHub robotics club and helping get the kids hacker camps started.

M-KOPA SOLAR Robot Competition, 2014.	My maze-solving robot won 2 <sup>nd</sup> place.
IEEE Robotics Society, Ultra-Affordable Educational Robot Project, 2014.	My team won first place in the ‘Community-Challenge’ category and honourable mention in the ‘Software’ and ‘Curriculum’ categories for designing PanyaBot, an ultra-affordable robot for education.
GE Distributed Power University Challenge, 2013.	My team won second place for the conceptual design of a distributed generation system employing concentrated solar power and Stirling engines.
International Space-Apps Competition, Nairobi	My team won 1 <sup>st</sup> place for designing ‘The Rover’, a mobile platform for teaching kids about robotics and programming.
JKUAT Tech Expo, 2013.	Won 3 <sup>rd</sup> place for designing an automatic backup lighting system.
Vice-Chancellor’s Award, 2012.	Awarded to the student with the highest aggregate scores in his/her class each year.

## Languages

English	Native
Swahili	Native
French	Novice

## Patents/Disclosures

UofT, 2017	CARE-RATE: An artificially intelligent search tool for dementia care-givers
IBM-R, 2016	System and Method for Creating and Managing Intelligent Water Points in Resource Constrained Regions

## Computer Skills

### Computer

Languages	Python, Javascript, Java, Go, C/C++	Scientific	Numpy, Pytorch, Tensorflow, Keras, Matlab/Octave
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