Gloire Rubambiza

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Computing and Information Science
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Education

Cornell University	Ph.D., **Computer Science**	2018 - 2023 (Expected)
Grand Valley State University	B.S., **Computer Science**	August 2014 - April 2018

Research Interests

Systems & Networking, Computing for Development, Human Computer Interaction

Research Talks

- **Gloire Rubambiza**, Dirk Grunwald, and Eric Wustrow. "Measurement and Statistical Analysis of Submarine Internet Cable Performance." Presented at the Leadership Alliance National Symposium, Hartford, Connecticut, July 2017

- **Gloire Rubambiza**, Jerry Scripps. "Improving African Internet Traffic through Maximization of Node Centrality." Presented at the 22nd Annual University at Buffalo McNair Summer Research Conference, Buffalo, New York, August 2016

Posters

- Danny Adams, **Gloire Rubambiza**, Xinwen Wang, Robbert van Renesse, and Hakim Weatherspoon. "An IoT-friendly Blockchian for Coordination and Accountability." Presented at the Public Safety Broadband Stakeholder Meeting (PSCR), Chicago, Illinois, July 2019

- Kolbeinn Karlsson, Danny Adams, **Gloire Rubambiza**, Zangyuenyang Xian, Robbert van Renesse, Hakim Weatherspoon, and Stephen Wicker. "Untethered: Deployable Blockchains for IoT Environments." Presented at the ACM Symposium on Cloud Computing (SoCC), Carlsbad, California, October 2018

- **Gloire Rubambiza**, Dirk Grunwald, and Eric Wustrow. "Measurement and Statistical Analysis of Submarine Internet Cable Performance." Presented at the Grand Valley State University Student Scholars Day, Allendale, Michigan, April 2018

- **Gloire Rubambiza**, Dirk Grunwald, and Eric Wustrow. "Measurement and Statistical Analysis of Submarine Internet Cable Performance." Presented at the Michigan AGEP Alliance Fall Conference, Lansing, Michigan, October 2017

Undergraduate Research Experiences

University of Colorado Boulder SMART Program　　　June 2017 - August 2017
Adviser: Dr. Dirk Grunwald, Area: Systems
Submarine cables handle approximately 95% of inter-continental Internet traffic. This study aims to elucidate the performance of submarine cables through the analysis of metrics such as available bandwidth and packet latency.

Ronald E. McNair Scholars Summer Research Program　　　May 2016 - August 2016
Adviser: Dr. Jerry Scripps, Area: Networks
For most African nations, a broadband Internet subscription is more than the average per capita yearly income. This study aims to improve the intra-African Internet traffic using strategic link addition algorithms to increase the closeness of a sample network.

Honors and Awards

Cornell University Fellowship	2018 - 2019
Paul G. Allen School First-Year Ph.D. Fellowship	(Declined)
UW Achievement Rewards for College Scientists Fellowship	(Declined)
Upsilon Pi Epsilon Honor Society	2017 - 2018
Eric Jon Gillette Memorial Scholarship	2016 - 2018
Ronald E. McNair Scholar	2015 - 2018

Industry Experience

Collective Idea　　　Software Development Intern　　　August 2016 - December 2016

- Developed a predictive algorithm for the Dead Man's Snitch application based on confidence interval and past log data

- Paired with senior developers on in-house projects such as add.a.lingua

Relevant Work Experience

Applebees　　　Line Cook　　　November 2014 - June 2018

- Logged weekly supply deliveries

- Trained new employees on multiple cooking stations

- Prepared daily food items based on high food safety standards

Teaching Experience

SoNIC Workshop　　　Teaching Assistant　　　June 2019

- Conducted user account administration

- Led a lecture on parsing Ethernet frames

Volunteering/Leadership Experience

Cornell, Maryland, Max Planck Summer School   Student Representative   August 2019

- Engaged top students on the process of applying to Ph.D programs

- Facilitated student introductions to world class faculty at Cornell

The Village at Ithaca   Student Achievement Coach   January 2019 - February 2019

- Introduced new tutors to the structure of community-based learning environments

- Fostered a positive academic learning environment for local K-12 students through one-on-one tutoring support and empowerment through trust based connections

IEEE Computer Society   Registration Desk Volunteer   June 2017

- Helped registrants with checking in and answering any questions pertaining to the 47th IEEE/IFIP International Conference on Dependable Systems and Networks

The Immigrant Connection   Citizenship Class Tutor   January 2017 - March 2017

- Familiarized local immigrants with the U.S citizenship process

- Improved the future citizens' confidence and English literacy through quizzing on American civics and history in anticipation for the U.S. citizenship test

Samaritas   Cultural Mentor/ESL Tutor   September 2016 - December 2016

- Organized weekly English lessons for an immigrant family to strengthen their English speaking and writing skills

- Coordinated occasional trips to downtown Grand Rapids, MI and surrounding areas to familiarize the family with their new environment