

Collins W. Munyendo

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Research Interests

Computer Security; Usable Security and Privacy

Education

- 2020 – Present **The George Washington University** – Washington, DC
Ph.D in Computer Science
Advisor: Prof. Adam J. Aviv
- 2017 – 2019 **Carnegie Mellon University** – Pittsburgh, PA
Masters of Science in Information Technology
Advisor: Prof. Martin Saint
- 2012 – 2016 **Strathmore University** – Nairobi, Kenya
Bachelor of Business Information Technology
Advisor: Prof. Jared Mayieka

Publications

- 2021 **Using a Blocklist to Improve Security of User Selection of Android Patterns**
Collins W. Munyendo, Miles Grant, Philipp Markert, Timothy J. Forman and Adam J. Aviv (*17th Symposium on Usable Privacy and Security*)
- 2021 **Strategies and Perceived Risks of Sending Sensitive Documents**
Noel Warford, Collins W. Munyendo, Ashna Mediratta, Adam J. Aviv, and Michelle L. Mazurek (*30th USENIX Security Symposium*)

Teaching Experience

- Fall 2019 **Teaching Assistant:** Linux Programming, Carnegie Mellon University
Provided in-class support, addressed students' questions via recitations and office hours, graded assignments and provided feedback to students.
- Spring 2019 **Teaching Assistant:** First Year Seminar, Carnegie Mellon University
Provided in-class support, addressed students' questions via recitations and office hours, graded assignments and provided feedback to students.

Industry Experience

- 2018 – 2021 **Security Consultant:** Silensec Limited – Nairobi, Kenya
Secured digital resources of the organization and clients via monitoring security events, alerts and incoming issues. Additionally administered security training.
- Summer 2018 **Software Engineer Intern:** TeleTracking Technologies – Pittsburgh, PA
Worked in a team to improve patient flow for Rwanda’s healthcare system through the development of a USSD scheduling application in Java to reduce patient waiting.
- Summer 2015 **Network Engineer Intern:** Kenya Web Limited – Nairobi, Kenya
Closely worked with other employees to set up and fix network problems for more than fifty customers. Revamped all faulty computers in the technical department.

Mentorship and Service

- 2016 – Present **Volunteer:** Nipe Sauti Africa
Responsible for identifying and conducting projects to improve livelihoods in Kenya.
- 2017 – Present **Mentor and Trainer:** Django Girls Kigali
Mentoring and introducing programming to young women in Rwanda.

Honors and Scholarships

- 2021 **GREPSEC V Scholar:** USENIX Association
Recipient of a scholarship to attend GREPSEC, a workshop for early-stage graduate students in computer security and privacy.
- 2019 **Devcon V Scholar:** Ethereum Foundation
Selected amongst 50 other candidates around the world to attend the Devcon V blockchain conference in Osaka, Japan.
- 2019 **HashiConf Scholar:** HashiCorp
Recipient of a full scholarship to attend HashiConf, HashiCorp’s annual user conference in Seattle, Washington.

Technical Skills

Programming Languages

Python, Java, JavaScript, C/C++, HTML and CSS

Security and Systems

Intrusion detection, network security monitoring, vulnerability assessment and penetration testing.