AMREESH PHOKEER RESEARCH MANAGER, AFRINIC

CONTACT INFORMATION	Avenue Astrolab Albion, 91006, Mauritius Tel: +230-5798-97-97 Email: amreesh.phokeer@gmail.com GitHub: https://github.com/amreesh
ABOUT	Experienced Internet Engineer, with background in Software Engineering, Information Security and Data Science. Insightful and result-driven with notable success in implementing diverse Internet core security frameworks (RPKI and DNSSEC) while participating in planning, analysis, and implementation phases, coordinating multiple teams. Hands-on experience with OpenSSL and related libraries. Extensive experience with core Internet protocols and security mechanisms. Frequent speaker at Internet related conferences.
AREAS OF EXPERTISE	Web and network performance, Network and Systems Security, Internet Policy Formulation, Risk Assessment, Team and Project Leadership.

WORK EXPERIENCE

AFRINIC, Mauritius

Research Manager	January 2017 to present
Research Engineer	November 2014 to December 2016
Applications Unit Manager	October 2011 to October 2014
Software Engineer	January 2011 to September 2011

Responsible of Internet security and Internet measurement research projects. Designed and implemented DNSSEC and RPKI infrastructure at AFRINIC. Participate in Cyber policy research, planning and implementation. Collaborate with a team of international researchers to conduct in-depth Internet measurement campaigns to better understand the African Internet Infrastructure development and challenges - from security, performance and economic perspectives. Manage the AFRINIC Internship programme to foster relationship with academic institutions.

WELCOOP, France

R&D Engineer	June 2009 to December 2010

Responsible of the research and innovation cluster. Worked with a team on engineers to implement the HL7 standards on pharmaceutical software systems.

NIST, MD, USA

Guest Researcher	April 2008 to May 2009

Assisted Computational biologists in developing tools and techniques for better image analysis. Integrated legacy applications into modern image processing tools. Developed a project management portal to help researchers keep track of project deliverables, finance and other resources.

EDUCATION

University of Cape Town, South Africa

Ph.D., Computer Science, *Expected:* December 2020

Royal Holloway, University of London, UK

MSc, Information Security, December 2013, *Pass with Distinction*

Telecom Nancy, University of Lorraine, France

MSc., Computer Science, June 2008

JOURNAL PUBLICATIONS	1. Sen, R., Ahmad, S., **Phokeer, A.**, Farooq, Z.A., Qazi, I.A., Choffnes, D. and Gummadi, K.P., 2017. Inside the Walled Garden: Deconstructing Facebooks Free Basics Program. ACM SIGCOMM Computer Communication Review, 47(5). [**BEST CCR AWARD**]

SELECTED CONFERENCE PUBLICATIONS	1. **Phokeer, A.**, Chavula, J., Johnson, D., Densmore, M., Tyson, G., Sathiaseelan, A., Feamster, N. "On the potential of Google AMP to promote local content in developing regions". In 2019 11th International Conference on Communication Systems & Networks (COMSNETS), Bengaluru, India, 2019, pp. 80-87.
	2. Formoso, A., Chavula, J., **Phokeer, A.**, Sathiaseelan, A. and Tyson, G., "Deep Diving into Africa's Inter-Country Latencies". In IEEE INFOCOM 2018-IEEE Conference on Computer Communications (pp. 2231-2239). [**Best Presentation Award**]
	3. Sen, R., Pirzada, H.A., **Phokeer, A.**, Farooq, Z.A., Sengupta, S., Choffnes, D. and Gummadi, K.P., 2016, November. On the free bridge across the digital divide: Assessing the quality of facebook's free basics service. In Proceedings of the 2016 ACM on Internet Measurement Conference (pp. 127-133). ACM.
	4. **Phokeer, A.**, Aina, A. and Johnson, D., DNS Lame delegations: A case-study of public reverse DNS records in the African Region. In Proceeding of 8th International Conference on e-Infrastructure and e-Services for Developing Countries, AFRICOMM 2016, Ouagadougou, Burkina Faso, December 6-7, 2016.

HONOURS

Awards
- IEEE INFOCOM 2018 Best-in-Session Presentation Award   May 2018
- IEEE AFRICON 2017 Most Outstanding Paper Award   Nov 2017

Scholarships
- PhD Scholarship from Hasso-Plattner Institute, Germany   Feb 2016 - Jun 2019
- Royal Holloway Scholarship for MSc in Information Security   Dec 2012 - Dec 2013
- Merit French Government postgraduate Scholarship   Jun 2005 - Jul 2008

Other
- Ranked 16th at National A-Level Cambridge Exams in Mauritius   Feb 2003

PRESENTATIONS

Workshops and Conferences (2017/19)
- SAFNOG-5 - Routing Security Tutorial   Aug 2019
- AFPIF 2019 - Securing against Route Leaks   Aug 2019
- AFRICOMM 2019 - Content hosting in Africa   Aug 2019
- AFRINIC 29 - Internet Measurement Tutorial   Aug 2019
- SAFNOG-4 - DNSSEC KSK Rollover   Sep 2018
- AFPIF 2018 - Internet Measurements Latency in Africa   Aug 2018
- APRICOT 2018 - Internet Measurements Latency in Africa   Feb 2018

TUTORIALS

- DNSSEC and RPKI usage and deployment, AFNOG   Jun 2013
- RPKI Validation, IWeek   Sep 2015
- RIPE Atlas Measurement platform, UCT MIP Course   Jun 2016

TEACHING EXPERIENCE	**Teaching Assistant**	Feb 2016 - Apr 2016

Teaching Assistant

Network for Development (N4D) course
with David Johnson
Department of Computer Science,
University of Cape Town
Feb 2016 - Apr 2016

Guest Lecturer June 2016

Measurements and Internet Protocol
with Nick Feamster (Princeton University)
Department of Computer Science,
University of Cape Town

SERVICE

Technical Program Committee
- African Peering Forum (AfPIF) — August 2020
- ACM Internet Measurement Conference (IMC) — July 2020
- IEEE Global Internet Workshop at IEEE Infocom 2019 — July 2019
- ACM Internet Measurement Conference (IMC) — July 2018
- Network Traffic and Analysis Conference (TMA) — March 2018
- Internet Summit Africa - Plenary — 2013 - Present
- Africomm Workshop on Internet Measurements — Dec 2017
- Internet Summit Africa - Internet Measurements Workshop — Jun 2017
- IST-Africa Conference — May 2013

SOFTWARE SKILLS Computer Programming:
- C, C++, Java, JavaScript, Python, Perl, PHP, UNIX shell scripting and others
- Jupyter, pandas, numpy R, matplotlib, d3

MEMBERSHIPS
- IEEE Membership
- IEEE Communication Society Membership
- Internet Society Membership

LANGUAGES
- English — Fluent
- French — Native
- Hindi — Spoken

REFERENCES Availabe upon request.