

DR. AMREESH PHOKEER

Internet Measurement and Data Expert

@ amreesh.phokeer@gmail.com Albion, MAURITIUS linkedin.com/in/amreeshphokeer @amreesh
github.com/amreesh web: https://amreesh.github.io



EXPERIENCE

Internet Measurements & Data Expert

Internet Society

April 2021 – Present MAURITIUS

- Co-Leader of the Measuring the Internet (Pulse) project.
 - Designed and built the Internet Resilience Index from 30 indicators.
 - Performed statistical analysis and data treatment of big data.
 - Leading research activities in Internet Measurements and routing security.
- Key Technologies: BGP, Statistical analysis, Big Data.

Research Manager

AFRINIC

January 2011 – March 2021 MAURITIUS

- Led multiple research and data analytics projects on various topics related to computer networking and security. Developed methodologies for data retrieval and analysis using statistical techniques.
 - Conducted research on latest trends in Internet protocol development, data analysis and storage techniques. Developed the framework for development of novel algorithms, built statistical models. Performed time-series analysis on 3 years of data.
 - Involved in scientific paper publication and business reports. Currently investigating the benefits of machine learning models for prediction on existing datasets.
 - Applied clustering algorithms for data classification, used graph theory (centrality measures, k-core, etc) for detecting dominant nodes in a network.
 - Organized Internet measurements and network analytics workshops with more than 70 attendees.
- Key Technologies: Python (Numpy, pandas, matplotlib), Java, SQL, D3.

Guest Researcher

NIST

September 2008 – August 2010 MD, USA

- Developed tools to handle large amount of image-based data (50GB+)
 - Implemented image analysis algorithms to allow classification and segmentation
- Key Technologies: Java, Web services, ImageJ, K-means clustering.

RECENT PUBLICATIONS

- Li, W., Lin, Z., Ashiq, M.I., Aben, E., Fontugne, R., **Phokeer, A.** and Chung, T., 2023, October. RoVista: Measuring and Analyzing the Route Origin Validation (ROV) in RPKI. In Proceedings of the 2023 ACM on Internet Measurement Conference (pp. 73-88).
- Fontugne, R., **Phokeer, A.**, Pelsser, C., Vermeulen, K. and Bush, R., 2023, March. RPKI Time-of-Flight: Tracking Delays in the Management, Control, and Data Planes. In Passive and Active Measurement: 24th International Conference, PAM 2023, Virtual Event, March 21–23, 2023, Proceedings (pp. 429-457). Cham: Springer Nature Switzerland.

LIFE PHILOSOPHY

"Life is like data, garbage in garbage out."

AWARDS

- Best Paper**
- 2017 ACM SIGCOMM CCR
 - 2017 IEEE Africon
 - 2018 IEEE Infocom Best-in-session
- Scholarships**
- Full Ph.D. Hasso-Plattner Scholarship
 - Full M.S. UK Scholarship for Infosec
 - French state scholarship for M.S. in IT

STRENGTHS

- Public speaking Quick Learner
Motivator & Leader Decision making
Strategic thinking

LANGUAGES

English ●●●●●
French ●●●●●
Hindi ●●●●●

EDUCATION

Ph.D. in Computer Science
University of Cape Town, ZA

March 2016 – October 2021

M.S. in Information Security
University of London, UK

June 2012 – December 2013

M.S. in Computer Science
University of Lorraine, FR

June 2003 – June 2008

SKILLS

Data Science ●●●●●
Python/Java/Perl ●●●●●
MySQL/Postgres ●●●●●
Pandas/Matplotlib ●●●●●
Statistics/Probability ●●●●●
Calculus and Algebra ●●●●●