

AMREESH PHOKEER

Research Manager & PhD Candidate

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EXPERIENCE

Research Manager

AFRINIC

January 2015 – Ongoing 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.

Software Development Manager & Programmer

AFRINIC

January 2011 – December 2014 MAURITIUS

- Managed a team of 9 software engineers and a database manager both in Mauritius and across Africa - Implemented agile methodologies for project management and got our processes ISO 9001 certified.
- Designed and implemented PKI-based platforms for secure DNS and routing used by more and 1500 clients.
- Involved in the design and development of internal tools, responsible for analyzing and managing large web projects and heavily involved in the coding of web services, CMS systems, Portals, etc.
- Designed and built the company's ETL platform for business intelligence.

Key Technologies: Java EE, PERL, PKI, SQL, D3, Pentaho.

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.

PUBLICATIONS

- Formoso, A., Chavula, J., Phokeer, A., Sathiseelan, A., & Tyson, G. (2018, April). Deep Diving into Africa's Inter-Country Latencies. In IEEE INFOCOM 2018-IEEE Conference on Computer Communications (pp. 2231-2239). IEEE.
- Phokeer, A., Chavula, J., Johnson, D., Densmore, M., Tyson, G., Sathiseelan, A., & Feamster, N. (2019, January). On the potential of Google AMP to promote local content in developing regions. In 2019 11th International Conference on Communication Systems & Networks (COMSNETS) (pp. 80-87). IEEE.

LIFE PHILOSOPHY

"There is no such thing as luck or coincidence."

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

Hard-working

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 – December 2020

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

Python/Java/Perl

MySQL/Postgres

Pandas/Matplotlib

Statistics/Probability

Calculus and Algebra

