

Kesego Mokgosi

AI Researcher | PhD Student

Language: English | Location: Dublin, Ireland

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Work Experience

Anton Tech

Gaborone, Botswana

Co-Founder

• The 2021 Botswana Innovation Fund recipient (BWP650,000) to develop an agritech data solution that detects transboundary diseases and uses geospatial data to help farmers and agronomists. Project Anton is now adopted by the largest development bank in Botswana financing commercial agricultural projects (CEDA).

Xavier Africa

Gaborone, Botswana

Head of Technology

• Led a team of engineers and developed large scale projects for the government and parastatals. For instance the communications manager service for the ministry of technology and communications supporting 2 million users and processing approximately 800k requests daily. A conversational agent for the Botswana Unified Revenue Services assisting businesses and citizens with tax submissions.

Conversational AI architect

• Worked as a Conversational AI architect and developed projects for the agency clients from deep learning to cross-platform applications. The solutions span from Finance, Mining, VoIP, Retail and Education.

Spectrum Analytics

Gaborone, Botswana

Fullstack Data Analyst

• Worked on a team to develop Social Protection Platform which served vulnerable communities during the Covid-19 pandemic in Botswana. Primarily focused on Data analytics and modelling pandemic data to enable distribution of aid and track vulnerable communities.

Education

Technological University Dublin (Dublin, Ireland)

PhD. COMPUTER SCIENCE

September. 2023-Current

• Audio and Speech processing with deep learning research funded by Research Ireland through D-Real and supported by the ADAPT research centre.

University of Sunderland (Sunderland, UK)

Bsc. COMPUTER SYSTEMS ENGINEERING

June. 2021 - June. 2022

• First Class graduate via the Botswana Accountancy College campus where I was the school Valedictorian.

Botswana Accountancy College (Gaborone, Botswana)

Bsc. COMPUTER SYSTEMS ENGINEERING

June. 2018 - June. 2021

• First Class graduate, with involvements across numerous student leadership roles and success in intervarsity computing competitions.

Skills

Python, Pytorch, WandB, Golang, Typescript, Next.js, SQL, Docker, Asterisk, Audio and Speech Processing, Reinforcement Learning, NLP, Project Management, Data Analytics, Data Science, Computer Vision

Programs/Committees

Google Developer Student Clubs (DSC BAC)

Google Developer Groups SSA

DSC Lead

Participated in the Google Developers Summit Africa 2019 in Ghana. Led Student Developer Community, Community Open Source Projects.

NASA Space Apps Challenge 2021

Gaborone, Botswana

Local Lead

NASA's International Space Apps Challenge has engaged 150,000+ people from 150+ countries. Led Developer Community, Build Community Solutions.

International Junior Science Olympiad 2018

Gaborone, Botswana

Technical Assistant

Provide technical support to the Events Team, Student mentor for team Hong Kong.

Research Ireland Centre for Digitally enhanced Reality Governance Committee

Dublin, Ireland

Student Representative

Engage in research centre discussions and represent research students under the program.

Accolades

Creative Business Cup Botswana Winner, 2023

Winner-BothoHacks Hackathon, 2020

Winner-National STEM Hackathon-BIUST, 2020

Winner-Botswana Innovation Hub Hackathon, 2022

Gold Medallist-BOTSA Informatics Olympiad 2017

International Olympiad of Metropolis Finalist, Russia 2017

Agritech Startup of the Year - Southern Africa Startup Awards

Southern Africa Innovation Collective (SAIC) BoostUp National Champions

Selected Certifications

Google Data Analytics Professional Certification

<https://www.credly.com/badges/031b3e62-b130-4854-b385-5b3a713ed02c>

AWS Solutions Architect

<https://www.edureka.co/lms/certificate/897df38019118576a966863bcb956359>

Selected Publications

Mokgosi, K., Ennis, C. and Ross, R., 2024. Automatic Speech Recognition Models for Pathological Speech: Challenges and Insights. **AICS2024**