

Francklin TOKIMITONDRA SOA

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📍 VS 12 BIS Antsahamamy Antananarivo, Madagascar

📅 June 07th 1992 in Tsihombe

PROFILE

"I'm a **Geologist**, a **Geophysicist** and a **MERN Full stack Developer** with strong knowledge of a database development & administration and a Geographic Information System. Easily adaptable to any situations and I can work well as part of a team."

WORK EXPERIENCE

Rio Tinto QMM (Quebec Madagascar Minerals)

08 February 2021 – 12 April 2021

- **Position:** Database developer
- **Mission:** Development of a geotechnical monitoring database for Slope, dump and tailings management
- **Tasks:**
 - Normalization of an existing non-organized data
 - Creating interfaces
 - Secure the database

The Royal Botanic Gardens KEW

February 2020

- **Position:** Geographic Information System Analyst
- **Mission:** Detection remotely of wildfires in a protected area of Ankarafantsika
- **Tasks:**
 - Downloading the **Sentinel 2** image and calculate the **BAIS2** (Burned Area Index for Sentinel 2) with **NBR** (Normalized Burned Ratio) on **Earth Engine** by using **JavaScript**.
 - Supervised classification of the image
 - Numerical mapping on **ArcMap**
 - Presentation of the results

SOA-PIDM (Geographic Information System - Statistics Training Center)

April 2018

- **Position:** Trainer
- **Mission:** Introducing the database development and management to the participant by using Microsoft Access

PROJECT AND INTERNSHIP

Rio Tinto QMM (Quebec Madagascar Minerals)

19 April 2021 – November 2021

- **Position:** Hydrogeologist

Mission: Numerical simulation of an open pit dewatering system for a dry mining of an Ilmenite deposit in QMM Mandena Fort-Dauphin Madagascar by using MODFLOW

Institute and Observatory of Geophysics of Antananarivo (IOGA)

Sept. 2018 – Nov. 2019

- **Position:** Geographic Information System developer
- **Mission:**
 - Development of geophysical database
 - WebMapping

Rio Tinto QMM (Quebec Madagascar Minerals)

November 2016 – February 2017

- **Position:** Junior Geological Filed Assistant
- **Mission:** Development of geological and geotechnical database
- **Tasks:**
 - Visualization of the area of interest on **ArcGIS**
 - Geological drilling (preproduction drilling) and Dynamic Cone Penetrometer test
 - Collecting and gathering data into **Ms Access** and **AcQuire**
 - Creating table, form, query and macros in **Ms Access**

Higher Institute and Technology of Anôsy (University of Toliara)

Sept - Oct 2016

- **Internship**
- **Mission:** Geological mapping of Tsihombe district
- **Tasks:**
 - Visualization on ArcGIS and delimitation of the area of interest on Google-Earth
 - Rock identification in the field
 - Data collecting and gathering
 - Structural analysis on Stereonet

WWF (World Wide Fund)

July 2014

- **Internship**
- **Mission:** Understanding how WWF works in the south of Madagascar

EDUCATION

University of Ankatso, Antananarivo Madagascar

May 2018 - November 2020

- **Cursus:** Management of Minerals resources and environment
- **Mention:** Geoscience and Environment
- **Option:** Mining Geology
- **Grade:** Master II

**Institute and Observatory of Geophysics of
Antananarivo (IOGA)**

April 2018 - November 2019

- **Cursus:** Science and technic in Geophysics & Geomatics
- **Mention:** Physic and applications
- **Option:** Applied Geophysics
- **Grade:** Master II

University of Toliara

September 2013 – June 2017

- **Mention:** Technic of marine and terrestrial environment
- **Option:** Geology
- **Grade:** Bachelor

TRAINING

ArkeUp Academy - Ocean Indien

01st Mars – 27th May 2022

- **MERN Full stack Developer**

Rio Tinto QMM

November 2016

- **Standard D3 et D5 (for slope, dump and tailings management)**

IT KNOWLEDGE

System: Microsoft Windows (07, 08, 10), GNU/Linux

Geographic Information System software: ArcGIS, QGIS, Oasis Montaj,

Mine planning software: Surpac

Other software: PIX4D, FME, Google Earth Pro

Web technology, Database: JavaScript, PHP, CSS, SQL

Database Management System: Microsoft Access, MySQL and MongoDB

Word processing: Microsoft office, libre office

INSTRUMENT

Cartography: GPS, Compass

Subsurface mapping: SYSCAL