### Francklin TOKIMITONDRASOA



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VS 12 BIS Antsahamamy Antananarivo, Madagascar



07<sup>th</sup> June 1992 in Tsihombe



### **PROFILE**

"I'm a Geoscientist 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
  - o Geological drilling (preproduction drilling) and Dynamic Cone Penetrometer test
  - Collecting and gathering data into Ms Access and AcQuire
  - o Creating table, form, querry 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:
  - o Visualization on ArcGIS and delimitation of the area of interest on Google-Earth
  - Rock identification in the field
  - Data collecting and gathering
  - o 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

April 2018 - November 2019

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

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: GeologyGrade: Bachelor

### **TRAINING**

### ArkeUp Academy - Ocean Indien

01 Mars - 22 April 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