

# Tlotlo Patriot Kgotlafela

APPLICATION DEVELOPER



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## ABOUT ME

- *Mobile Application Developer with 2 years' experience in building mobile applications in **Flutter/Dart Framework***
- *Around 1.5 years of development experience in **IBM Cloud-Node Red and Cloudant Database***

Excellent problem-solving skills, interpersonal skills, committed and hard working.

## Primary skills (Technical)

- Flutter framework
- Swift
- SQL
- Kotlin
- Java
- Dart
- Node Red (Node.js)
- Firebase
- RESTful APIs
- Jira

## Secondary skills (Design and web performance-related)

- Software development life cycle
- CI/CD services
- GIT/Version control
- Android/iOS development

## EDUCATION

### The Linux Foundation - LiFT Scholarship

NODE.JS SERVICES DEVELOPMENT (LFW212)

2022 June - Current

### BSc Computing with Finance

University of Botswana

2015 - 2020

## CERTIFICATIONS

### Build Smart on Kubernetes

OpenShift in building, deploying, and testing a variety of applications, from simple node.js and Java microservices to AI service integration with cloud-native applications. *IBM - May 2021*

### Deploy a Microservices-Based Web Application

Docker and containers, Kubernetes. *IBM - Oct 2020*

### Introduction To Flutter Development Using Dart

App Brewery - April 2020

*Digital Natives / Gaborone/ September 2021 – Present [1 year 1 month]*

#### Responsibility:

- Responsible for developing and maintaining iOS and Android applications for Digital Natives
- Providing continued maintenance and development of bug fixes for existing mobile applications.
- Proposing technical solutions for new architectural designs and suggesting options for performance improvement of apps.
- Analyzed user requirements, and translated client needs into application design
- Developed mobile applications in Flutter.
- Wrote test cases for all new features added and performed multiple rounds of regression testing to maintain the quality of the products
- Refined and developed features resulting in a decrease of crashes by 60%, increase in user retention by 300%

#### Web Developer

*CS Dept. /University of Botswana, Gaborone/ June 2019 – August 2019 [3 Months]*

#### Responsibility:

- Built website using Django, a python web development framework
- Development was on a Linux environment (Ubuntu)
- Followed the Web Development life cycle.
- Gathering and evaluating user requirements, in collaboration with my partner and supervisor.
- Develop UI mock-ups and prototypes that clearly illustrate the user journey and how sites function and look like.
- Manage projects configurations with GitHub

## 1. Blue Waters

*Gaborone, Botswana / November 2020 – Present*

### **Role & Responsibility:**

- Responsible for aiding in the innovation and creation of all Blue Waters software and programs.
- Designed and Developed the Water Quality dashboard with Node red (platform built on Node js)
- Displayed Botswana Geological Survey dam and river maps on a Node-RED dashboard
- Developed the Water quality API which provides water quality reports for Botswana dams.
- Use Arduino controller to access the sensor data. This system uses different sensors for monitoring the water quality by determining pH, turbidity, conductivity and temperature

**Description:** A Node Red application to show water quality reports dashboard for Botswana Dams.

The major objective of our application is to give spatial variations and background concentrations of selected physio – chemical parameters found in rivers that overflow into major dams in Botswana. The application basically tracks water quality looking at variable parameters that include determining pH, turbidity, conductivity, and temperature.

**View Project:** <https://bluewatersbw.netlify.app/>

**Environment:** IBM Cloud, Node Red (Node js), Cloudant Database, Git Toolchain, IBM Watson

## 2. Personal Portfolio(in progress)

Built with Flutter and Firebase for backend

**View Project:** <https://tlotlo-591eb.web.app>

## 3. View other projects on my GitHub repo.

<https://github.com/Tlotlo-pat?tab=repositories>