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

Secondary skills (Design and web performance-related)

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

E D U C A T I O N

The Linux Foundation - LiFT Scholarship
NODE.JS SERVICES DEVELOPMENT (LFW212)

2022 June - Current

BSc Computing with Finance
University of Botswana
2015 - 2020

C E R T I F I C A T I O N S

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

Mobile Application Developer

Digital Natives / Gaborone/ September 2021 – Present [11 Months]

Responsibility:

- Creating application for IOS and Android
- 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 application in Flutter.

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 Website

Built with Html, CSS and JavaScript

View Project: https://tlotlokgotlafela.netlify.app/

3. View other projects on my GitHub repo.

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