BONGA NJAMELA

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https://github.com/BongaNjamela001/

CONTACT

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Cape Town, Western Cape

EDUCATION

B.S.c (Eng) Electrical & Computer Engineering

University of Cape Town

2020 - current

Awards

SARAO Undergraduate Scholarship 2020

UCT Plus Bronze Community Service & Leadership

B.S.c Applied Mathematics & Physics

University of Kwa-Zulu Natal

2017 - 2019

Awards

Physics Third Year Top Student 2019

Golf Day Bursary 2019

SKILLS

Java

Python

C/C++

Django Framework

SQL

HTML/CSS

Linux

ARM Assembly/Architecture

Kotlin

CAREER OBJECTIVE

Graduate mathematician and physicist. Currently studying towards an Electrical and Computer Engineering degree. Experienced in working part-time while studying. Looking to work in a team to drive innovation forward by harnessing the power of analytics as a Software Engineer using Java, C/C++ and Python.

WORK EXPERIENCE

Mobile Application Developer (Remote)

Educave

October 2022 - November 2022 Cape Town

- Successfully worked with startup team to design new mobile application using HTML/CSS and XML for android and iOS implementation
- Successfully introduced new educative app features for increasing usage and downloads
- Resolved UX design errors to improve efficiency by 90%

Reference: (Founder) Anza Tshipetane anzatshipetane@gmail.com

PROJECTS

Embedded System LoT Project

Creator

2022

- Designed a Light of Things communication interface between multiple microcontrollers using C/C++
- Specified communication protocol for transmitting an ADC value between two systems using light
- Worked efficiently with team members to debug sytem and report on system performance

Kotlin Android Application

Creator

2022

- Built a responsive android mobile application using Fragments and Kotlin
- Tested application using standard benchmarking techniques

Java Projects

Creator

2020-2022

- Completed experimental and imperical determination of the effectiveness of AVL trees in balancing nodes using Java
- Determined that the AVL trees provides good performance irrespective of the order of the data
- Implemented data randomization to ensure accuracy of the experiment and used instrumentation to determine time complexity of the program