

Thandanani Zulu

Software Engineer

github.com/ThandananiZulu
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EDUCATION

Dec 2021
Jan 2017

National Diploma in Information Technology
MANGOSUTHU UNIVERSITY OF TECHNOLOGY
70% overall pass in final year.

CERTIFICATION

Jan 2023

AWS Certified Cloud Practitioner
80% or 803 out of 1000 marks for the exam
https://www.credly.com/badges/26435844-1542-492c-8981-de0a70ddb832/public_url

PROFESSIONAL EXPERIENCE

Present
June 2023

Junior Software Developer at FRESHLINKS
* (reasons for leaving: I am looking for a salary increase.)

- Responsible for designing and maintaining the front end of a Flutter mobile app. I integrate API's made by my team members.
- I assist the lead developer with tasks on the web app and submit all work using Trello and push the code to my Bitbucket branch.

Jan 2023
Feb 2022

BankSETA(SA Government) Internship at ZAKHELE TECHNOLOGIES

- Contributed to the development of a funeral parlour management software application used by big companies like Tshipinoto, Heavensgate and Gwiliza just to name a few.
- Created new features like analytical reports, converting html code to pdf, excel and print. Was trusted with creating a feature to allow users to claim using underwriter (Brightrock). This claims feature included a form using bootstrap modal to collect claimer data. I made use of already existing data and auto populated the form where possible. I submitted form to backend then to database. Also created a view using jquery datatable to see who made claims and when. I also had an update and a delete option for all claims created.
- Utilized Codeigniter 4 PHP framework and integrated many third-party libraries.
- Gained experience in web app development, backend integration, agile and sprint methodologies.
- Worked with a team of developers as lead and sometimes worked with a senior developer as equals. We collaborated using Github. We each had our respective branches and the senior dev would merge our code.

Dec 2021
Sep 2021

Work-Integrated-Learning (In-Service Training) at APPMADE

- In the Flutter framework I implemented core functionalities such as user registration and authentication, allowing users to create accounts, log in securely, and manage their profiles. Used push notifications to show latest updates and inserts. Also ensured updates even when the app is in the background.
- Worked on a tight schedule but managed to complete project on time.
- Used Trello to assign/receive or tick off tasks, and fix bugs.
- Worked with mobile dev team in collaboration with web dev team to create a solution that communicates to both web and mobile apps using one backed.
- Used PHP MySQL to communicate to the database.

ACCOMPLISHMENTS

I was team leader of five other interns at Zakhele Technologies(internship) and six students in AppMade(work-intergrated learning/in-service training). I was also best programmer amongst the interns.

Was part of a meeting with Tshipinoto CEO(funeral parlor) to discuss some of the key features I was implementing.

I am the team leader and senior sound engineer of 3 team members in my local church(volunteer).

SOFT SKILLS

Worked under pressure to meet important clients' deadlines at Zakhele Tech. Also work under pressure as senior sound engineer every Sunday that everyone looks to for clear sound during church service.

I never rest until outstanding work is complete. Also able to multitask.

TECHNICAL SKILLS

Level 5	HTML • PHP • MYSQL • BOOTSTRAP • PHPMYADMIN • CODEIGNITER 4 • QUERY BUILDER • NODE JS
Level 4	JQUERY • GITHUB • BITBUCKET • MS OFFICE SUITE • IT TERMS •
Level 3	C# • C#.NET • MS SQL SERVER • MYSQL WORKBENCH • ANGULAR REACT, LARAVEL • ASP.NET MVC •
Level 2	JAVA • VB.NET • NETBEANS • PYTHON • PHP UNIT • QA •
Level 1	TEST CASES • FUNCTIONAL TESTIG • MANUAL TESTING •

REFERENCES

Senior Dev • Zakhele Technologies • Sbangani Gcaba • 073 941 469
Director • Zakhele Technologies • Wiseman • 071 404 8620
Project Manager • AppMade • Mfundo Ntombela • 082 678 1995.

PROJECT:
BESTBRIGHTNESS
WITH GETX FOR MVC PROJECT
STRUCTURE

Apr 2023
Jan 2023

https://drive.google.com/file/d/1jB-B1dAIdD6g830-rt39f_wsqNTNhy0ky/view?usp=share_link

<https://github.com/ThandananiZulu/bestbrightness>

This mobile app was created with Flutter using Android Studio. It was tested using android emulator and real phone through USB debugging. It uses NodeJS backend and mysqljs library for MySQL database. Uses XAMPP server. It has the following features: Login, signup, Multi factor authentication, image recognition, speech to text, push notification, Pick up , deliver and view inventory.

- For login/authentication I used Facebook auth package. With this Facebook API I fetched the email and full name. I use the email to create session and full name to show who logged in. I also used google sign in package without firebase to login via Gmail.
- I also logged in and signed up using NodeJS and mysqljs then for multi factor authentication I used local auth package to confirm permission using fingerprint sensor.
- For stocktaking I used Google mlkit image labelling for item recognition when taking or uploading photos. Included barcode/QR code scanner as well.
- Speech to text to populate text fields using voice. Upon submitting to backend successfully, a push notification is blasted in real time using Socket.IO.
- Pickup/delivery form takes unknown number of items and submit it as JSON.

PROJECT:
MAGEBATECH
.COM

Mar 2023

<https://magebatech.com>

This website was built to promote a business. It was created using vanilla Javascript, HTML and CSS. It has following sections: hero, about, services, FAQ, contact us.

- I used GSAP library to create a parallax / moving effect on mouse hovering.
- Every section has transitions using background animations still using GSAP.
- The headings rotate as a wheel using CSS and SCSS.

PROJECT:
DURBANENVIRO
TOURS.CO.ZA

Jan 2023

<https://durbanenvirotours.co.za>

This website was built to promote a business. It was created using a bootstrap template. It has the following features: to download documents and to email questions as a client.

- In contact us section I used PHPMailer library to help with sending email from my website to my receiving email. I designed with bootstrap and html.

PROJECT: SPORTS
OFFICE
PORTAL

Oct 2022
Apr 2022

WITH CODEIGNITER FOR MVC
PROJECT STRUCTURE

<https://sportsoffice.magebatech.com>

<https://github.com/ThandananiZulu/sportsoffice>

This web application was created with CodeIgniter 4 using Visual Studio Code. It uses XAMPP server and MySQL PHPMYADMIN database. It has these features: Login, forgot password, add member, noticeboard, add inventory, add requisition and a chat portal.

App and database was hosted on hostinger.com but NodeJS server on render.com. Created a staging/testing platform using a subdomain sportsoffice.magebatech.com.

- I used MySQL to sign up and login. Used Auth0 library for login security.
- Forgot password sends user to email then back to app to update password.
- Noticeboard uses bootstrap modal form to create / update a post/notice and uses bootstrap cards to display posts/notices. Also has pagination for cards.

It has Javascript search bar that filters notices by their title and description.

- Created a chat feature using Socket.IO for all the users to interact in real time.

PROJECT: TAXI
APP

Sep 2021
Jan 2022

WITH PROVIDER FOR PROJECT
STRUCTURE

<https://github.com/ThandananiZulu/taxiapp>

This mobile app was created with Flutter using Android Studio. This app used a PHP backend and XAMPP server PHPMYADMIN and MySQL. Hosted database online. The features include Login, register driver, view driver, add taxi load, notify taxi rank when taxi is full with notifications. Integrate communication with web application part.

- Created login/signup, forgot password in PHP backend and Flutter Frontend.
- Has a drivers dashboard which drivers had to update when load is full or empty via almost instant notifications from the background worker package.

PROJECT:
THE
INNOVATORS
APP

Sep 2021
Feb 2021

<https://github.com/ThandananiZulu/TheInnovatorsApps>

This web application was created with Angular and Ionic framework using Visual Studio Code. It uses XAMPP server and MySQL PHPMYADMIN database. It uses node backend as well. It has these features: Login, signup, noticeboard, chat feature.

- The login feature used Firebase Authentication or AngularFire to login with email or phone number. I also had a verify email feature using Firebase.
- The chat feature used MYSQL. It wasn't real time. It updates only on page refresh.
- For the noticeboard section I used the Firebase Firestore to upload, store and fetch images online to use in my app.