

Tawanda Muzanenhamo

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EDUCATION

UNIVERSITY OF CAPE TOWN BSC ELECTRICAL AND COMPUTER ENGINEERING

Feb 2016 | Cape Town, South Africa

Electrical Engineering Department

• Awards: ABSA Group Scholarship •

Specialisation Include: Embedded Systems, Computer Engineering, Network Engineering

LINKS

Github: [tmuzanenhamo](#)

LinkedIn: [Tawanda Muzanenhamo](#)

SKILLS

PROGRAMMING

Python (*Django, Flask, Fast API*) • PHP (*Laravel,*

Symfony) • JavaScript (*React, Node, Express*)

• CSS (*SCSS, Tailwind, Bootstrap*)

• Matlab • Version Control (*Git, GitHub*) •

Typescript • Databases (*PostgreSQL, MySQL*) •

DevOps (*Jenkins, GitLab Pipelines, GitHub Actions*)

Familiar:

AWS (*EC2, S3 Buckets, Lambda*) • Java

(*Spring-boot, Hibernate*) • Rabbitmq • Elastic

Search • Google Cloud Platform

COURSEWORK

UNDERGRADUATE

Signals and Systems

Digital Systems

Computer Sciences (Data Structures and Algorithms, Mobile Design and Development)

Design Principles

Project Management

Microwave Engineering

Business Intelligence Analysis

Mobile Wireless Networks

Embedded Systems (*Tutor 2x*)

AWARDS

UNDERGRADUATE

• ABSA Group Scholarship - Given in recognition for academic excellence and leadership skills

EXPERIENCE

B ONLINE | INTERMEDIATE SOFTWARE ENGINEER

Feb 2021 - Present | Cape Town, South Africa

- Collaborating with cross-functional teams to design, develop, and maintain software solutions.
- Designing and Developing Application Programming Interfaces (APIs) to link our solutions to existing third-party applications using REST technologies.
- Leading small development projects and ensuring timely delivery of deliverables.
- Writing clean, maintainable, and efficient code.
- Designing and implementing microservices architectures for scalable and highly available systems.
- Designing and implementing communication patterns for microservices such as request/response, event-driven, and message-based communication.
- Tech Stack: PHP (Laravel) | JavaScript (React) | Python (Django) | Docker | Elastic Search | CSS (SCSS) | Redis | GraphQL | Git | GitHub | Rabbitmq

QUICK CONNECT WIRELESS | JUNIOR SOFTWARE ENGINEER

Jun 2020 - Feb 2021 | Johannesburg, South Africa

- Owns a Python Django service as a lead or most frequent contributor. This entails multiple support services surrounding the company's main video-streaming web application.
- Led the development of a NodeJS server-less application used for uploading large files to an Amazon S3 bucket using the multipart file upload method.
- Setup GitHub Actions for continuous integration and continuous deployment.
- Tech Stack: AWS (EC2, S3 Buckets, Lambda) | JavaScript (Node) | Python (Django)

OPTI-NUM SOLUTIONS | VACATION WORK STUDENT

Jul 2019 - Aug 2019 | Johannesburg, South Africa

- Training on how to use MATLAB for Data Mining and Data Visualization.
- Won the first prize for the best Business Intelligence project.

CITIQ PREPAID | SOFTWARE ENGINEERING INTERN

May 2019 - Jul 2019 | Cape Town, South Africa

- Developed a Restful API system to fetch and group tickets from ZOHO and assign technical tickets to the Software Development team.
- Interfacing with clients to determine and document application requirements.
- Tech Stack: Python (Falcon) | JavaScript (Angular) | Git | GitHub | ZOHO

PROJECTS

MUBRO INVOICES | DATA CAPTURING SYSTEM

Jan 2021 - Present | Johannesburg, South Africa

- In January 2021 it became apparent for MUBRO Enterprises to migrate from the complicated and difficult excel based invoicing system as there was no easy way to keep track of the invoices and fetch historical data. We then decided to design and build a cloud-based solution to capture invoice information and generate invoices. The application has evolved into a great success for MUBRO Enterprises by improving the process of capturing invoices and allowing the users easily retrieve historical data and send hundreds of invoices in the blink of an eye. Current features include: Bulk Importing, User Management, Invoice Generation, Report Generation, and Send Notifications. Tech Stack : Python (Django) • React • CSS • PostgreSQL • AWS EC2 • GitHub Actions

