

# NDOBE RITO

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## Objective

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I am a recent Graduate in Computer Systems Engineering. I have experience in Software Development - Intern and became a Junior Technician. I developed skills in Coding as Full-Stack developer, Web Hosting, System Testing, WiFi and Solar installation, Sites monitoring and maintenance. Good Communication and Knowledge sharing, Adaptability and applied learning, Team collaboration and Task execution, problem solving and Critical thinking skills. I have hands-on experience in electronics and electrical work, including installing and maintaining wiring systems, assembling and testing electronic circuits, and troubleshooting faults. I am familiar with using tools and equipment safely, interpreting circuit diagrams, and working on power distribution and control systems. My background also includes practical knowledge of solar and Wi-Fi installations, as well as developing IoT-based solutions using Firebase as a real-time database and ESP32 microcontroller. With a qualification in Computer Systems Engineering, which covers both hardware and software, I am able to integrate electronic systems with software solutions for smart and automated applications.

## Experience

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### • TSHWANE UNIVERSITY OF TECHNOLOGY

15/01/2022 - 15/12/2022

Student assistant - Mathematics

As a Mathematics Tutor within the ICT faculty, I conducted both online and in-person tutoring sessions for undergraduate students, focusing on foundational and advanced mathematical concepts relevant to computer systems and engineering. My role involved explaining complex topics in an accessible manner, adapting my approach to suit diverse learning styles and academic levels.

I supported over 50 students with assignment guidance, test preparation, and conceptual reinforcement, contributing to improved academic performance and subject confidence. Through this work, I developed strong interpersonal communication and mentorship skills, building trusted relationships with students and fostering a supportive learning environment.

#### KEY RESPONSIBILITIES:

- Conducted online and in-person tutoring sessions for ICT students, focusing on foundational and advanced mathematics.
  - Supported over 50 students with exam preparation, assignments, and conceptual understanding
- Establish trusted advisor relationships with decision-makers and senior buyers.

### • ABT TELECOMS

16/08/2023 - 30/05/2025

Software Developer - Intern and Junior Technician

As a Software Developer, I was responsible for the full lifecycle development and maintenance of responsive web applications using front-end and back-end technologies such as HTML, CSS, JavaScript, and PHP. I successfully implemented secure online payment processing by integrating the Payfast gateway, ensuring smooth and reliable transaction experiences for users.

I utilized NGROK to facilitate secure local development, enabling effective webhook testing and API integration in isolated environments. I contributed to collaborative coding practices through active participation in code reviews and maintained high standards of software quality by producing clear technical documentation.

In addition to my development responsibilities, I provided hands-on support in the deployment and installation of solar and Wi-Fi solutions, demonstrating flexibility and a practical understanding of cross-functional technical systems.

#### KEY RESPONSIBILITIES:

- Developed and maintained responsive web applications using HTML, CSS, JavaScript, and PHP.
- Integrated Payfast payment gateway for secure online transactions.
- Used NGROK for local development and webhook testing.
- Participated in code reviews and technical documentation efforts.
- Provided support in solar and Wi-Fi installations.

## Education

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- **HANYANI THOMO HIGH SCHOOL**  
Matric  
Grade 12 - 2016
- **TSHWANE UNIVERSITY OF TECHNOLOGY**  
COMPUTER SYSTEMS ENGINEERING 2024 - IT Graduate

## Skills

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- C++ and Delphi C++
- Networking and WIFI installation and configuration and also WiFi coverage extension using radio links.
- System Analysis
- Logic Design and PLC - Ladder logic
- Solar installation as a backup power for WI-FIs installed.
- Web development using HTML5, CSS3, PHP, JavaScript and MySQL, Payfast Gateway Payment Integration by also creating ngroks.
- IoT Project - Smart Home system- This was a smart home system that detects flame and which had a water tank. You can view my Portfolio: <https://ritomakoya.github.io/RitoMakoyaWebsite/#projects>
- Jira, Git and Github
- Python, .Net, Typescript Java, C#, Node.js, React for building and intergration web applications.
- Frameworks: Bootstrap (CSS Framework), Angular and Laravel

## Reference

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- **NTIMBANI LEHLOGONOLLO** - Tshwane University of Technology  
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