

# PHOOKO PATRICK MAKHOTLA

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 <https://phookpm.github.io/portfolio-site/>

 <https://github.com/PhookoPM>

## Professional Summary

Motivated by outcomes Information and database administrator with two years of practical experience in system support and network administration. Experience with Oracle Cloud services, I designed and implemented PostgreSQL database schemas for two application-based projects. Currently working on MySQL administration, encompassing installation, configuration, performance tuning, backup and recovery, and security implementation for the IT Center ERP system. Strong knowledge of data integrity, disaster recovery, networking concepts, and system integration in client-server contexts for POS systems under central control. Capable of supporting integrated corporate systems while maintaining data availability, dependability, and security. Always eager to learn, I thrive in collaborative environments and enjoy tackling complex problems with innovative approaches.

## Key Competencies

### ● Technical Skills :

- **Front end:** React(Next.js), Tailwind CSS, HTML
  - JavaScript
- **Back end:** Python (Django), Php, Node.js
  - SQL (PostgreSQL, Oracle), MySQL
  - C++, C programming, Assembly Language
- Linux Systems(Ubuntu & Kali)
- Git, Docker (Containerization)
- Power BI (Data Analytics)

### ● Areas Of Expertise :

- Database Administration (Oracle, PostgreSQL, MySQL)
- Oracle Cloud Infrastructure (OCI) – Databases
- SQL Query Optimization & Indexing
- Data Security & Access Control (RBAC, Encryption)
- System Support & Troubleshooting
- Network Administration (LAN/WAN, Client-Server Systems)
- Data Integrity, Maintenance & Patching
- ERP / Integrated Systems Support
- Documentation & Technical Reporting

## Education

### ● National University of Lesotho

Bachelor of Science in Computer Science

### ● Leribe English Medium School

LGCSE

### ● Leribe English Medium School

Junior Certificate

### ● Mafube English Medium School

PSLE

## Professional Development Certifications And Training

- **Certificate Of Completion : mHealth Basics-Introduction to Mobile Technology for Health Course**

- Credential : <https://www.globalhealthlearning.org/certificate/1713361/g-c-completion-13028-0-id15834981-1713361>
- Oracle Certification :  Oracle Fusion Cloud Applications HCM Process Essentials Certified - Rel 1
  -  Oracle Cloud Infrastructure 2025 Certified Foundations Associate
- Networking & System Administration Training
- Cloud Computing Fundamentals (Oracle Cloud – Training and Practical Exposure)

## Projects

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- Fraud Detection System over USSD Transactions (2023/24)

Successfully submitted in partial fulfillment of a Bachelor of Science in Computer Science, Faculty of Science and Technology, National University of Lesotho.

- Developed a machine learning model to detect fraud in USSD transactions.
- Used Python, scikit-learn, and PostgreSQL to analyze transaction patterns and detect anomalies.
- Conducted data pre-processing, feature engineering, and model evaluation for accuracy and reliability.

- Hospital Management System (Jan 2024 - May 2024)

Successfully submitted in partial fulfillment of a Bachelor of Science in Computer Science, Faculty of Science and Technology, National University of Lesotho.

- Built a Python(Django)-based hospital management system using PostgreSQL and Nginx.
- Deployed with Docker and Docker Compose to ensure smooth multi-node operations.

## Experience

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- IT Center Maseru ( Jan 2025 - Present )

System Support & Network Administrator ( Full time ) || IT Support & Network Security Instructor (Part time)

### Key Duties and Responsibilities :

- Managed Oracle Cloud database instances, including monitoring, backups, and performance optimization.
- Implement and test backup and disaster recovery strategies, ensuring rapid data restoration and minimal downtime.
- Ensured secure Network and Databases access and compliance with organizational data security standards.
- Manage organization's IT infrastructure, blending responsibilities for servers.
- Support network-integrated systems using client-server model to ensure centralized data management and real-time system updates.
- Responsible for setting up and testing network configurations.
- Provides hands-on training on configuring network topology, firewalls, access points, and end-points.
- Support and Consultancy: I assist clients with technical issues, providing support.
- Delivers practical training sessions on computer networking concepts, TCP/IP, VLANs, routing, and switching.
- Taught cybersecurity fundamentals, covering threat detection, malware analysis, and security incident response.Kali Linux and Metasploit - penetration testing, Wireshark- network traffic analysis and scanning.

- Computer-Hub Leribe ( Feb 2024 - Jan 2025 )

IT Support and Consultant (Remote)

### Key Duties and Responsibilities :

- Configure Networking and Testing: Responsible for setting up and testing network configurations.
- Support and Consultancy: I assist clients with technical issues, providing support through various communication channels.
- Troubleshooting Hardware and Software Issues: Identify and resolve problems with computer hardware and software related issues, which may include diagnosing failures and repairing or replacing faulty components.
- Point of Sale (POS) Systems Installation and User Training

- **National University Of Lesotho**

(Sep 2023 - Feb 2024)

Computer Science Lab Assistant (Volunteering, On-site)

- Fundamentals to C++ programming year 2 module

**Key Duties and Responsibilities :**

- **Facilitating Lab Sessions:** Assist students during C++ programming lab sessions by providing guidance on coding exercises and debugging errors.
- **Supporting Practical Learning:** Help students understand core programming concepts such as variables, loops, functions, arrays, and a little intro to object-oriented programming in C++.
- **Maintaining Lab Equipment:** Ensure all computers and software in the lab are functional and assist in troubleshooting technical issues.
- **Promoting Good Coding Practices:** Encourage students to follow clean coding standards, write efficient algorithms, and use proper documentation in their code.

## Soft Skills

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- Good communication skills (interpersonal and extra personal)
- Problem-solving
- Critical thinking
- Adaptability
- Time management
- Attention to detail
- Collaboration
- Teamwork

## References

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- **Mr. Kefuoe Sole - IT Center, Maseru**

Manager, Business Operations

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- **Mr. Lika Masoebe - Health Information Systems Program - Southern Africa**

Business Analyst , Professional mentor

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- **Mr. Balone Ndaba - National University Of Lesotho - FOST**

Computer Science Lecturer and 4th year research project Supervisor

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- **Dr. Likeleli Qhomane Letsie - National University of Lesotho - FOST**

Information Systems Lecturer

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