

# Theophilus Thobejane

SA Citizen | [thobejanetheo@email.com](mailto:thobejanetheo@email.com) | (081)-535-9007 | **LinkedIn:** [Theophilus-Thobejane](#) | **GitHub:** [TheoInCodeLand](#) | [Portfolio website](#)

## PROFESSIONAL SUMMARY

Graduate Software Developer with practical experience building and maintaining full-stack and mobile applications in JavaScript, Node.js, React Native, and relational databases. Showed capability in delivering reliable systems for real clients, optimizing processes through automation, and collaborating within structured, agile-driven teams. Strong academic grounding (NQF 7) combined with real-world project execution.

## EDUCATION

### University of Mpumalanga

Nelspruit, Mpumalanga

Advanced Diploma in Information and Communication Technology – NQF7

Expected Graduation, May 2026

- **Concentrations:** Cybersecurity, Intelligence and Modeling
- **Related Coursework:** Programming in Java, Data Structures & Algorithms, Object-Orientated Programming (OOP), Networking, Machine Learning, Artificial Intelligence, Project Management, Statistics & Applications, Cyber Security, Systems Analysis, Mathematics, Statistics, Linux (Ubuntu) environment.

## EXPERIENCE

### Casalinga Tours: Artificial AI-Integrated Booking Ecosystem | Freelancing

Remote

Lead Developer | <https://www.casalingatours.online/>

Jun 2024 - Jul 2025

- Built a production booking system replacing manual WhatsApp bookings, reducing admin work by 15+ hours weekly.
- Integrated AI-driven tour recommendations, increasing user engagement by 40%.
- Designed a PostgreSQL database schema that matched the dynamic tour inventory with the Artificial Intelligence (AI) model, removing scheduling conflicts and reducing administrative manual entry by over 15 hours per week.

### University of Mpumalanga

Nelspruit, Mpumalanga

Student Assistant (Lecturer Assistant)

Feb 2024 - Jan 2025

- Used classroom lessons and academic guidance to deliver supplementary lectures and extra classes for core ICT modules, which improved student understanding and increased average test scores by 18% in supported courses.
- I also used automated grading tools and rubric-based assessment with lecturer facilitation to assist lecturers in marking assignments and exams for 40+ students, ensuring accurate, timely feedback while reducing grading workload by 60%.
- Made use of Python and Java debugging sessions to tutor 3<sup>rd</sup> year students in software development projects, resulting in a decrease in project resubmissions and higher final projects.

## PROJECTS

### Stock Predictor

remote

Team Lead and Lead Developer

Jun 2023 - Oct 2023

- Trained mathematical models to predict stock price trends using Naive Bayes, neural networks, and linear regression time series algorithms
- Scripted the predictive stock price model and obtained a prediction accuracy of 90.07%

### IoT Smart Home System: Automated Energy & Load-Shedding Manager

University of Mpumalanga

Team Lead & Lead Systems Architect

Feb 2023 – Nov 2023

- Led a team of 8 to deliver an IoT smart-home system that converts standard appliances into remotely managed devices.
- Built a load-shedding-aware system using ESP8266 (C++), Firebase, and cloud logic to prevent power surges during grid instability.
- Developed a control platform with React Native (Expo) and Node.js/Express, including ML-driven automation that improved energy efficiency by 15%.

## Happy-Deliveries: Multi-Vendor Food Delivery Ecosystem mobile app

Remote

Lead Developer

Dec 2024 - Dec 2025

- Developed a cross-platform mobile application using React Native (Expo), enabling a unified codebase for iOS and Android while ensuring high-performance UI interactions and smooth navigation.
- Made use of scalable RESTful API with Node.js and Express, managing complex state transitions for real-time order processing, cart persistence, and secure user authentication.

## ATM Simulation System (Java)

Remote

Sole Developer

Jun 2023 - Oct 2023

- Accomplished a 100% accurate transaction logging system by architecting a decoupled logic structure using Java's Object-Oriented principles, ensuring every deposit, withdrawal, and transfer is recorded in an immutable *transactionHistory* list.
- Minimized account retrieval latency to constant time complexity by implementing a HashMap data structure for account storage, enabling near-instantaneous authentication and data access regardless of the user base size.

## ACTIVITIES AND LEADERSHIP

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### University of Mpumalanga | Mbombela, South Africa Team Lead & Full-Stack Developer (Smart Home Initiative)

- Successfully led a team of 8 members (classmates) to develop an IoT Smart Home system, orchestrating weekly sprints, technical training sessions, and project schedules that ensured 100% on-time delivery of the prototype.
- Managed conflict resolution and team motivation by establishing clear milestones and performance rubrics, maintaining high morale throughout a complex 10-month development cycle.
- Implemented technical training sessions and peer-mentorship programs to overcome skill gaps in the team to ensure all members were proficient in the project's development standards.

## SKILLS

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**Programming:** Java, Python, JavaScript, PHP, Node.js, C++, Kotlin

**Tools:** Android Studio, IntelliJ, Visual Studio Code, Eclipse, AWS, Jupyter Notebooks, Git.

**Frameworks & Libraries:** React.js, React Native (expo) and express.js, Django, Spring Boot, J2EE (Servlets, JSP).

**Databases:** MySQL, PostgreSQL, Mongo DB, Database Migration (Flyway/Liquibase).

**Concepts:** Data structures and Algorithms, RESTful API Design, troubleshooting, Problem solving Skills, SDLC, Agile/Scrum.

## REFERENCES

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### Job References

Employer (Student Assistant) – Lilly Kunene: University of Mpumalanga (Mbombela Campus)

Email: [lilly.kunene@ump.ac.za](mailto:lilly.kunene@ump.ac.za)

Casalinga Tours founder – Blessing Aphanga

Phone: +27 76 687 8485

### University References:

Lecture (& IoT project) – Ms. Sinazo Matyila: University of Mpumalanga (Mbombela Campus)

Email: [sinazo.matyila@ump.ac.za](mailto:sinazo.matyila@ump.ac.za)