

# Thama Mabatha

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## PROFILE SUMMARY

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Final year BSc Information Technology student in Computer Science and Informatics with strong skills in programming, software development, and business/system analysis. Proficient in Java, C++, and JavaScript, with experience across the full software development lifecycle, including requirements gathering, system modeling, and project planning. Adept at connecting business needs with technical solutions, bridging the gap between users and developers. Passionate about problem solving, process driven development, and contributing to roles that combine technical expertise with business analysis to deliver effective solutions.

## WORK EXPERIENCE

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### Tutor/Assistant

University of Johannesburg | February 2025 - Current

- Guided first-year Computer Science students through practical sessions, improving understanding of programming concepts and boosting learning outcomes.
- Assisted students in debugging code and clarifying assignment requirements, enhancing problem-solving skills and promoting academic success.
- Fostered a supportive learning environment, enabling students to build confidence and independently apply coding principles.

## EDUCATION

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### University of Johannesburg

Bachelor of Science in Information Technology in Computer Science and Informatics - In progress (Expected 2025)

### Tshikevha Christian School

Grade 12 - 2021

## CERTIFICATIONS

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- Data Analytics Job Simulation - 2025
- SheCodes Basics - 2024
- SheCodes Plus - 2024
- SheCodes React - 2024
- Programming & GRIT Bootcamp - 2023

## SKILLS

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- Front end development
- Web Application Design & Implementation
- API Integration & Asynchronous JavaScript
- UI/UX Design, Responsive Layouts & Data Formatting

- Database Management: MongoDB, MySQL
- Programming Languages: JavaScript, C#, HTML, CSS, SQL
- Frameworks & Platforms: ASP.NET, React-Native
- Process Modelling using UML
- Verbal and Written Communication
- Critical and Analytical Thinking
- Team Collaboration and Independence
- Problem Solving & Time Management
- Attention to Detail & Accuracy
- Willingness to Learn

## PROJECTS

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### Machine Learning Lead Conversion Prediction (Personal Team Project)

<https://github.com/Thama-Mabatha/Machine-Learning>

- Designed and deployed a machine learning solution that **improved prediction of lead conversions** for dealerships, enabling data-driven decision-making.
- Built and optimized multiple models (Random Forest, XGBoost, CatBoost, SVM, and ensembles), achieving **measurable performance gains on imbalanced data**.
- Improved model evaluation through advanced metrics (PR-AUC, Log-loss, F1), ensuring **robust performance on real-world dealership data**.
- Collaborated in a team environment, **standardizing experimentation workflows** in Jupyter Notebook/Google Colab for reproducibility and scalability.
- Utilized Python, Pandas, Scikit-Learn, CatBoost, XGBoost, Matplotlib

### Universal Admin Platform(Personal)

<https://github.com/masindithe/universal-admin>

- Developed a flexible, web-based admin system enabling multiple clients (“universes”) to manage apps, users, and dynamic content independently, improving operational efficiency.
- Created a reusable admin interface with modular sidebar, user and record management, dynamic forms, and app-specific workflows, enhancing usability and scalability.  
Designed the system for multi tenant functionality, simplifying onboarding and management of new clients while supporting future growth.
- Leveraged JavaScript, HTML, CSS, C#, MongoDB, and Azure Functions to deliver a robust, scalable solution.

### E-Commerce Store (University Project):

[https://github.com/TebohoMajake/QuickKart\\_Website](https://github.com/TebohoMajake/QuickKart_Website)

- Developed a full-stack web application simulating a functional online store, including product catalog, shopping cart, checkout process, and admin dashboard, enhancing practical e-commerce experience.
- Implemented state management, component reuse, and role-based access, improving application efficiency, maintainability, and security.
- Optimized user experience, data flow, and logical transaction processing, ensuring seamless interactions and reliable functionality.
- Utilized JavaScript, HTML, CSS, C#, ASP.NET, and MySQL to build a robust, scalable web application.

### Basic Weather App:

<https://github.com/Thama-Mabatha/react-weather-app> & <https://animated-elf-5a235f.netlify.app>

- Developed a frontend web application displaying real-time, location-based weather data, enhancing user engagement with updated information.
- Integrated external weather APIs, implementing asynchronous JavaScript and dynamic DOM updates to ensure accurate and responsive data display.
- Designed a clean, responsive user interface with optimized data formatting, improving usability and overall user experience.
- Utilized JavaScript, HTML, and CSS to deliver a visually appealing and functional application.