

# Tiisetso Mmola

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## Portfolio

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- <https://Tiisetso012.github.io/Tiisetso-Mmola-Portfolio/>

## Professional Summary

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- Recent BSc Information Technology graduate from North-West University with hands-on, project-based experience in full-stack development and network design. Skilled in Java, Python, C#, and modern web technologies like React and Node.js. Proven ability to design, develop, and collaborate on end-to-end software solutions. Seeking an internship to contribute technical skills, a problem-solving mindset, and a strong eagerness to learn in a professional environment.

## Education

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- **North-West University** 2025  
Bsc in Information Technology
- **WeThinkCode** 2021  
Programming BootCamp

## Skills

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- Programming Skills: Java, C++, C#, Python, TypeScript(ES6+)
- Front-End Development : React, Angular, HTML5, CSS3
- Backend Development : Node.js , FastAPI, RESTful API Development
- Database: MySQL, MongoDB
- Tools and Platforms: Git, GitHub, VS Code, Eclipse, Cisco Packet Tracer, Figma
- Concepts: Algorithms, Data Structures, Object-Oriented Programming(OOP), System Design, Networking Fundamentals

## Projects

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- **ClimateWatch- Real-Time Weather Dashboard | Personal Project**
  - Developed an interactive weather application integrating with OpenWeather API to fetch real-time weather data
  - Implemented responsive UI with dynamic updates, 5-day forecasts, and city search functionality
  - Designed intuitive user interface with weather condition animations and temperature visualization
  - Added localStorage for caching frequently searched cities and improving performance
  - Built error handling for API failures and user-friendly error messages
  - Technologies:JavaScript, HTML5, CSS3, REST APIs, Async/Await, Git, Responsive Design
  - Live Demo:<https://tiisetso012.github.io/tiisetso-mmola-portfolio/weather-app-demo.html>
- **Caffex - Full-Stack Coffee Shop Web Application**
  - Engineered a responsive full-stack web application for online ordering and staff management using C# with MySQL (backend).
  - Implemented a secure user authentication system to differentiate between customer and admin roles, controlling access to order history and inventory modules.
  - Collaborated in a 4-person team using Git for version control in an Agile workflow, conducting code reviews and managing tasks via sprints.
  - Technologies: React, C#, MySQL, CSS, Git, Agile/Scrum, VS Code

- **Corporate LAN Network Design & Simulation**

- Designed and simulated a cost-effective LAN network for a corporate office using Cisco Packet Tracer
- Configured VLANs, routers, switches, and wireless access points to segment network traffic logically, enhancing security and Performance.
- Implemented DHCP and DNS services to automate device configuration
- Technologies: Cisco Packet Tracer, VLAN Configuration, DHCP, DNS, Network Security Principles

- **Tutor Link - Online Tutoring platform | UI/UX Design Project**

- Designed comprehensive React-based tutoring platform with 7 core interfaces for seamless student-tutor interaction
- Created detailed UI/UX specifications including user flows, wireframes, and component architecture
- Implemented dual-rating system allowing both students and tutors to rate each other after sessions
- Developed session management system with scheduling, calendar integration, and payment processing mockups
- Documented complete system architecture, API endpoints, and database schema for implementation
- Technologies: React, JavaScript, UI/UX Design, System Architecture, Figma, Documentation

- **Modern React App - TaskFlow Manager | React Project**

- Developed an interactive task management application called TaskFlow using React with a Kanban-style board.
- Technologies: React, JavaScript, CSS3, Responsive Design, Git, GitHub
- GitHub: <https://github.com/Tiisetso012/Modern-React-App--taskflow-manager>
- Live Demo: <https://tiisetso012.github.io/tiisetso-mmola-portfolio/modern-react-app-demo.html>

- **Backend API - RESTful Service with MongoDB | Backend Development Project**

- Developed a scalable RESTful API using Node.js and Express.js with MongoDB database integration
- Implemented JWT-based authentication and authorization system for secure user access
- Designed and implemented CRUD operations for multiple data models with proper validation
- Created comprehensive error handling middleware and input validation
- Configured environment variables for different deployment stages (development, production)
- Implemented rate limiting and security headers for enhanced API protection
- Documented all API endpoints with examples using Postman and inline documentation
- Technologies: Node.js, Express.js, MongoDB, Mongoose, JWT, REST API, Postman, Git, NPM
- GitHub Repository: <https://github.com/Tiisetso012/backend-api>
- API Documentation: <https://tiisetso012.github.io/Tiisetso-Mmola-Portfolio/backend-api-demo.html>

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## Activities

- Hackathon Participant – Actively enrolled in competitive hackathon events, developing problem-solving skills under time constraints.
- Academic Excellence – Recognized for high achievement in Physical Sciences (Grade 11), demonstrating strong analytical and technical aptitude.

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## LinkedIn Profile

- [https://www.linkedin.com/in/tiisetso-mmola-2b1223341/?utm\\_source=share&utm\\_campaign=share\\_via&utm\\_content=profile&utm\\_medium=ios\\_app](https://www.linkedin.com/in/tiisetso-mmola-2b1223341/?utm_source=share&utm_campaign=share_via&utm_content=profile&utm_medium=ios_app)

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## GitHub Account

- <https://github.com/Tiisetso012>