

Madikila Agnes Mabusela

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PROFILE

Final- Year IT student at Cape Peninsula University of Technology with practical experience in software development, AI/ML and project management. Passionate about using academic skills in real-world IT environments and seeking opportunities in Software Development and AI research.

EDUCATION

Cape Peninsula University of Technology | Cape Town, SA *Feb 2023-Dec 2025*

DPICTA DIP: ICT IN APPLICATIONS DEVELOPMENT

Academic Average: 75.6% (1st Year) | 76.1% (2nd Year) | **Distinctions:** 5 (1st Year) | 6 (2nd Year)

Waterberg High School | Limpopo, SA

Dec 2016

National Senior Certificate

Certifications

- AWS Cloud Practitioner (**Expected: Jun 2025**).
- Microsoft Azure Developer Associate (**Expected: Jun 2025**).
- ML Specialisation course- Stanford & DeepLearning.AI (**Expected: Dec 2025**).
- Project Management, Branding, Git & GitHub, SQL, UX/UI- **LinkedIn Learning: (2023-2025)**.

TECHNICAL SKILLS

- **Languages:** Java, Python & JavaScript.
- **Web Development:** React, Flask, Django, Dash, Bootstrap, Tailwind.
- **Databases:** MySQL, SQLite Studio & Firebase.
- **Cloud & DevOps:** Docker, Firebase Hosting.
- **Operating Systems:** Windows and MacOS; currently learning Linux.
- **Project Management:** Agile, Waterfall & Scrum.
- **Data Science/ ML:** Scikit-Learn, TensorFlow, Numpy, Pandas, Matplotlib.
- **Version Control:** Git, GitHub.

PROFESSIONAL EXPERIENCE

IT Intern: Developer: Plum Systems | Cape Town, SA

Jan 2025 – Present

- Assisted in developing internal React & Firebase web applications.
- Worked with teams on Agile methodologies to meet deadlines.

Freelance Developer: ZafroSolar (Startup Project) | Cape Town, SA

Dec 2024 – Present

- Developed a React & Flask web app for connecting customers with a solar energy provider.
- Integrated Formik for form handling and automated email notifications using Gmail API.

KEY PROJECTS

- **Facial Recognition for Missing Persons (In Development):** Developing an AI system that scans public cameras and social media to help find missing people. Uses React, Node.js, OpenCV, TensorFlow and Firebase for face recognition and data storage.
- **AI-Powered Fitness & Nutrition Coach:** Developed a chatbot that creates workout plans and meal suggestions based on user goals. Uses AI to track calories, protein intake and suggest exercises for strength and weight management. Built with React, Flask and TensorFlow for personalized fitness recommendations.
- **Online Code Editor:** Developed a web-based coding tool that supports JavaScript, Java and Python. Built with React and Monaco Editor, it allows users to write and test code easily.
- **Crime Reporting App:** Led a team to develop a real-time crime reporting platform with photo and video uploads, as well as location tracking. Built with Flask and SQLite and Google Maps API, it includes user authentication and case tracking. The project scored a final mark of 90%.
- **University Accommodation System (In Development)** – Leading the development of a platform for students struggling with accommodation. Built with React, Java Spring Boot and MySQL. The system connects students, institutions and private providers.
- **E-commerce Website:** Built a full-stack platform with product listings, authentication and PayFast payment integration, built with Flask and SQLite.

ADDITIONAL EXPERIENCE

Influencer for PeaceHead Country Club | Cape Town, SA

Aug 2023 – Dec 2023

- Promoted and marketed mixed media digital art images as NFTs sold on OpenSea, helping increase brand visibility and drive sales through various social media platforms.

REFERENCES

Available upon request.