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 an opportunity to grow within the tech industry, especially in Software Development and Artificial Intelligence.

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, Vue, Flask, Django, Dash, Bootstrap, Tailwind.
- **Mobile Development:** React Native, Android Studio(Java/Kotlin)
- **Databases:** MySQL, SQLite Studio, Firebase.
- **Cloud & DevOps:** Docker, Firebase.
- **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, GitLab.

PROFESSIONAL EXPERIENCE

IT Intern: Developer: Plum Systems | Cape Town, SA   *Jan 2025 – Present*

- Assisted in developing internal React and React Native & Firebase web and mobile 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.

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 (In Development)**: Developing 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 a 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 – Present*

- 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.

- The artwork is also being showcased at leading Cape Town galleries, including Youngblood and others.

REFERENCES

Available upon request.