NABASA AMOS

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Professional Summary

Software Engineer specializing in full-stack development (React, Node.js, Python) and AI integration. Proven experience building and deploying user-centric applications for low-connectivity environments, achieving measurable impacts such as a 50% reduction in manual processes and a 60% increase in data accuracy. Passionate about building scalable, efficient, and impactful technology.

Education

Bachelor of Software Engineering: Mbarara University of Science and Technology (2022 – 2025)

Technical Skills

Languages: Python, JavaScript, TypeScript, Java, C++,
Frontend: React, React Native, HTML5/CSS3, Tailwind CSS
Backend: Node.js, Express.js, Flask, REST APIs
AI/Data: TensorFlow, Pandas, NumPy, Scikit-learn
Databases: MongoDB, MySQL, Firebase
Tools & Platforms: Git, Docker, AWS (EC2, S3), Jenkins, Postman

Work Experience

❖ Full Stack Developer Intern | John Vince Engineering | June 2024 –July 2024

- Engineered and deployed HostelEase, a full-stack MERN booking platform, serving 500+ students and reducing manual registration efforts by 50%.
- Implemented secure JWT authentication, real-time availability filters, and a responsive UI to streamline the user experience from discovery to booking.

❖ Software Developer Intern | CAMTech Uganda | September 2023 – October 2023

- Developed a health-focused voicebot using Python and the ChatGPT API, enabling 100+ users in underserved areas to access critical health information via touchless voice queries.
- Led project management for the MVP, ensuring on-time delivery by coordinating a cross-functional team.

❖ Crop Advisor (AI-Powered Recommendation Tool) | Personal Project

- Built and trained an AI-driven web application (Python, Flask, React) delivering crop and fertilizer recommendations with 60% greater accuracy than traditional methods.
- Specifically optimized the front-end for performance in low-bandwidth rural environments, demonstrating a commitment to user-centric and empathy-driven design.

❖ PyCodeCommenter (Python Library) | Personal Project

- Created and published a developer tool to PyPI that automatically generates Google-style docstrings by parsing Python's Abstract Syntax Tree (AST).
- Demonstrates deep understanding of Python internals and a passion for improving developer workflow and code maintainability.

Languages

English: Fluent, **Runyankore / Rukiga**: Fluent, **Luganda:** Good Proficiency, **Spanish:** Basic