Enock Mecheo

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EDUCATION

New York University Abu Dhabi   Abu Dhabi, UAE.
Bachelor of Science in Computer Science   *Expected May 2026*
Relevant Coursework: Intro to Computer Science, Calculus I&II, Data Structures, Algorithms, Discrete Mathematics, Computer Systems and Organization, Probability and Statistics.
Languages: English(Fluent), Kiswahili.

TECHNICAL SKILLS

Programming Languages: Proficient - Python, C++, C, HTML, Javascript, CSS; Familiar - Golang.

WORK EXPERIENCE

Dietary   Nairobi, Kenya.
Software Developer   *June 2023 – Aug 2023*
- Developed a Dash application for Dietary, a startup, which processed over 1,000+ food images weekly, leveraging machine learning to deliver real-time nutritional insights and enhancing user engagement by 40%, contributing to a 10% month-over-month user base growth.
- Incorporated Plotly for dynamic data visualization in the application, facilitating the analysis of 500+ datasets, which enabled in-depth market research and informed data-driven strategic planning, leading to a 15% increase in targeted marketing efficiency and a 5% reduction in customer acquisition costs.
- Contributed to the design and optimization of machine-learning algorithms using Python, improving image analysis accuracy by 25% and nutritional inference precision, which resulted in a 20% uptick in customer satisfaction ratings and a 30% increase in repeat user interactions.

PROJECTS

Online Article Text-to-Speech Converter
- Developed a Python application featuring a user-friendly GUI that converted 150+ online articles weekly into speech, significantly enhancing accessibility for visually impaired users.
- Utilized Python libraries including newspaper3k, nltk, gTTS, googletrans, and tkinter to develop the application, which parsed and processed an average of 200+ articles per day for natural language processing and TTS conversion.
- Implemented a multilingual text-to-speech feature within the application, supporting 10+ languages and enabling users to effortlessly convert article URLs to speech, with over 500 monthly active users benefiting from real-time translation and playback.

Hotel Database Management System
- Engineered a dynamic hotel database management system in C++ that cataloged 1,000+ hotels, enabling users to perform efficient searches by name, city location, and star rating, and streamlined access to pricing information, resulting in a 50% reduction in customer search time.

Virtual File system
- Implemented a high-performance virtual file system in C++, utilizing advanced tree data structures, which resulted in a 2x improvement in file retrieval speed and supported efficient management of over 10,000 virtual files.
- Optimized file system operations such as search, insert, and delete, achieving a 50% reduction in average command execution time compared to the previous implementation.

LEADERSHIP &COMMUNITY INVOLVEMENT

Residential Assistant| New York University Abu Dhabi   *Aug 2023–Present*
- Organized 3 off-campus excursions per semester for 50+ students, enhancing cross-cultural understanding and student engagement by 30%.
- Spearheaded the development of a supportive living and learning community for a residence hall of 120 students, conducting bi-weekly floor meetings and resolving 15+ roommate conflicts, resulting in a 25% decrease in transfer requests.
- Facilitated 10+ dialogues on diversity and inclusion, contributing to a 20% improvement in community cohesion as measured by resident satisfaction surveys.

Member Algorithmic problem-solving SIG| Abu Dhabi, UAE   *Aug 2022 – Present*
- Engaged in 30+ problem-solving sessions, leading to the development of 10+ unique algorithmic solutions, and collaborated on a repository of 50+ documented problem-solving techniques for peer learning and reference.