

Enock Mecheo

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EDUCATION

New York University Abu Dhabi

Bachelor of Science in Computer Science

Abu Dhabi, UAE.

Expected May 2026

Relevant Coursework: Intro to Computer Science, Calculus I&II, Data Structures, Algorithms, Discrete Mathematics, Computer Systems and Organization, Probability and Statistics, computer networking, intro to Databases, ios app development, full stack web development.

Affiliations: Colorstack, CodePath.

TECHNICAL SKILLS

- Programming Languages: Python, C++, C, HTML & CSS, JavaScript, Swift.
- Tools & Frameworks: React.js, Flask, Frappe Framework, DigitalOcean.
- Databases: MySQL, SQLite.

WORK EXPERIENCE

TechSavanna Technologies

Software Developer Intern

Nairobi, Kenya.

June 2024 – Aug 2024

- Developed and optimized front-end components using React.js and JavaScript, enhancing user interface responsiveness and improving user satisfaction scores by 25%.
- Contributed to back-end development using PHP and Python, implementing robust server-side logic that increased data processing efficiency by 40% and supported a user base of over 10,000 active users.
- Leveraged the Frappe framework to build and maintain scalable web applications, integrating over 10 custom modules and enhancing feature customization, which reduced operational costs and increased deployment speed by 20%.

PROJECTS

NarrateNow: Web Page Narrator

- Developed a full-stack web application that converts online articles into audio narrations in multiple languages, supporting 10+ languages including English, Spanish, French, and Mandarin.
- Technologies: HTML, CSS, JavaScript, Python Flask; deployed on GitHub Pages and Render for enhanced scalability.
- Link: <https://enockmagara.github.io/NarrateNow/>

Hotel Database Management System

- Designed and developed an efficient Hotel Information Management System in C++, utilizing a hash table with binary search trees, resulting in $O(1)$ average-case time complexity for data operations and supporting management of over 100,000 hotel records.
- Link: <https://github.com/EnockMagara/FIND-HOTEL>

Virtual File system

- Created a command-line virtual file system simulator in C++, featuring custom data structures and file I/O operations, improving file access efficiency by 20%.
- Link: <https://github.com/EnockMagara/VFileManager>

WebCanvas: Interactive Canvas Drawing WebApp

- Developed a web-based drawing app using HTML5, CSS3, and JavaScript, featuring tools for drawing, erasing, color selection, and line width adjustment.
- Enhanced functionality with undo/redo, zoom, pan, and save/load capabilities, ensuring a responsive design for desktop and mobile use.
- Link: <https://enockmagara.github.io/WEBCANVAS/>

LEADERSHIP & COMMUNITY INVOLVEMENT

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.