# EDMUND KIAMA

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## Education

**Moringa School**                                                                                                    **Nov 2024 – March 2025**

*Software Engineering  | Full-Stack developer*

**Technical University of Kenya, Nairobi**                                                                **July 2019 – Nov 2024**

*Bachelor of Engineering Mechanical Engineering*                                        *Second class Upper Division*

**Pioneer School**                                                                                                            **Jan 2015 – Dec 2018**

*Kenya Certificate of Secondary Education*                                                                          Grade: B+

## Certificates

**Harvard University**                                                                                                        **Issued Oct 2024**

*Programming Using Python*

**Simplilearn**                                                                                                                  **Issued Sep 2024**

*Introduction to Internet of Things (IoT)*

**MathWorks**                                                                                                                    **Issued Sep 2024**

*MATLAB Certified*

## Experience

**Freelance**                                                                                                                        **Oct 2024 - Present**

*Front-end Developer*                                                                                        *Nairobi County, Kenya*

- Identify and resolve bugs.
- Design and update existing website elements to ensure a visually appealing and user-friendly interface.
- Optimize website content for improved search engine visibility by implementing relevant SEO meta tags.
- Integrate multiple HTML pages by establishing interlinks for seamless navigation.

**National Cement Company Limited**                                                                      **May 2024 – July 2024**

*Mechanical Engineer | Industrial Attachment*                                                       *Along Mombasa Road*

- Ensured plant was in-compliance with Health, Safety and Environment (HSE) standards by inspecting and maintaining emission systems.
- Assisted in preventative and breakdown maintenance on large machinery such as kiln
- Assisted in maintaining conveyor systems including belts, pulleys, and idlers, alongside industrial vulcanize engineers
- Carried out fabrication, welding and fitting tasks in the workshop.
- Operated on machinery such as lathe,drilling and shaping machine for precise material removal.
- Assisted in routine inspection and field maintenance with other engineers.
- Monitored plant operations in the Central Control Room (CCR)

## Projects

**4-Wheel Steering Steering System Project |** *SolidWorks, Ultimaker Cura, Blender*          *Grade A |* **Oct 2023 – March 2024**
- Replicates a four-wheel steering system by incorporating gear-based working principle for 3 phases enhanced functionality.
- These steering phases are positive, negative and neutral steering phase, which were activated through their specific gear meshes.
- Utilized SolidWorks for design and Ultimaker Cura for fabrication.
- Overcame challenges in fabricating and meshing multiple gears by calculating precise gear ratios and employing advanced alignment techniques.
- Collaborated with a team of two engineers to successfully deliver the project.

**Mini Tik-Tok clone Single Page Application** | *HTML, CSS, JavaScript, Vue js*          **Sep 2024**
- Displays a list of videos with user data, including likes, comments, shares and saves.
- Component-based architecture with props is used to build modular features such as the top navigation, sidebar and video content sections.

**Shopping List Application |** *HTML, CSS, JavaScript*          **Nov 2024**
- The application focuses on array manipulation
- Has functionalities such as adding elements via forms submission and deleting elements by targeting specific elements within an array of objects.
- Designed to dynamically update the UI in real-time based on changes made to the array.
- Utilized local storage to store the array and synchronized data between it and the DOM.

**Character Management Application** | *HTML, CSS JavaScript, json*          **Nov 2024**
- The application fetches, displays and manages a list of characters from a custom json file.
- It uses fetch methods such as (GET, POST, DELETE) to iterate and manipulate the character data dynamically.
- It has seamless user interaction, with dynamic UI updates reflecting changes such as adding through forms or deleting characters in real time.
- Created as a mini-project to explore JavaScript based data manipulations.

**API Manipulated Application |** *HTML, CSS, JavaScript, External API*          **Dec 2024**
- The application interacts with an open-source API to fetch data using the GET method.
- The application has three primary sections: episodes, characters and favorites, with each section displaying dynamic content pulled from a nested array within the API.
- Incorporated functionality for users to like and unlike characters, with real-time UI updates reflecting these changes.

**E-Commerce Cart for both developers and users** | *HTML, CSS, JavaScript, React js*          **Jan 2025**
- Users can add products, manage quantities and keep track the total price of cart products dynamically.
- Implemented a search functionality to locate products by name.
- It displays appropriate message displays for "Product Not Found" or "Empty Cart" when applicable.
- Integrated a developer tools feature to facilitate adding, editing and deleting products for seamless product management and testing.

## Developer Stack

- HTML
- CSS
- JavaScript
- Python
- React js
- Vue js
- Version Control(git)
- MySQL
- GitHub

## Professional Skills

- Proficient in industrial standard design applications such as SolidWorks and AutoCAD.
- Quick learner who adapts well to fast paced environments.
- Knowledgeable in basic mechanical principles and Programmable Logic Controllers (PLCs).
- A problem solver with strong critical and creative thinking, open to emerging challenges.
- Thrives in both team-based and independent work environments.
- Demonstrates strong integrity, work ethic and a sense of ownership in projects.
- Possesses sharp analytical skills and communicates effectively with the team.
- Eager to learn from others and continuously develop personal skills.
- Full stack developer proficient in front-end development, currently expanding expertise in back-end development.