

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

Software Engineer

Nairobi County, Kenya

- Identify and resolve bugs to improve application functionality and performance.
- Develop scalable and resilient applications to ensure reliability and efficiency.
- Integrate CRUD operations to enhance application functionality and user experience.
- Collaborate with a team of software engineers to design and implement robust, high performing applications.

National Cement Company Limited

May 2024 – July 2024

Mechanical Engineer | Industrial Attachment

Along Mombasa Road

- Ensured operations were in compliance to operational safety standards by monitoring and maintaining automated control system.
- Supported engineers in preventative and corrective maintenance of industrial systems, contributing to system reliability and up time.
- Inspected and maintained handling systems with senior engineers.
- Monitoring and controlling plant operations from the Central Control Room (CCR) using an integrated software, electrical and mechanical system.

Projects

4-Wheel 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, Blender for rendering 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.

Rick and Morty 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.

Job Finder Application | *HTML, CSS, JavaScript, React js, External API* Feb 2025

- The application uses an external API to fetch remote jobs details using CRUD operations.
- The user can search for their preferred job and are able to apply by filling a form.
- The application uses client side routing for flexible user interface.

Developer Stack

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|--------------|------------------|-------------------------|--------------|
| • JavaScript | • Python | • Docker | • Kubernetes |
| • HTML/CSS | • Vue js | • React js | • MySQL |
| • GitHub | • GitLab | • Git (Version Control) | • Linux |
| • SolidWorks | • Ultimaker Cura | | |

Professional Skills

- Currently expanding on cloud native tools such as Docker, Kubernetes and cloud platforms such as GCP.
- Proficient in front-end development and actively growing skills in back-end development.
- Skilled in industrial standard design applications such as SolidWorks and AutoCAD.
- Quick learner who adapts well to fast paced environments.
- Knowledgeable in basic engineering principles.
- Proficient in designing and utilizing 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.