

# EDMUND KIAMA

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## EDUCATION

### Moringa School

*Software Engineering | Full-Stack Developer*

Nov 2024 – Apr 2025

### Technical University of Kenya, Nairobi

*Bachelor of Engineering, Mechanical Engineering (Second Class Upper Division)*

July 2019 – Nov 2024

### Pioneer School

*Kenya Certificate of Secondary Education (Grade: B+)*

Jan 2015 – Dec 2018

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## CERTIFICATIONS

### Harvard University

*Programming Using Python (Issued Oct 2024)*

### Simplilearn

*Introduction to Internet of Things (IoT) (Issued Sep 2024)*

### MathWorks

*MATLAB Certified (Issued Sep 2024)*

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## EXPERIENCE

### Freelance — Software Engineer

Oct 2024 – Present | Nairobi, Kenya

- Developed scalable and resilient applications to improve performance and reliability.
- Integrated CRUD operations for dynamic user interactions with application data.
- Collaborated with a team of software engineers to design and implement high-performing applications.
- Debugged and optimized code to resolve issues and enhance functionality.

### National Cement Company Limited — Mechanical Engineer (Industrial Attachment)

May 2024 – July 2024 | Along Mombasa Road

- Monitored operations for compliance with safety standards using automated control systems.
  - Supported preventative and corrective maintenance efforts for industrial systems.
  - Collaborated with senior engineers on system reliability and uptime by maintaining plant operations.
  - Managed plant operations through a Central Control Room (CCR) using integrated software and hardware systems.
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## PROJECTS

### 4-Wheel Steering System Project | SolidWorks, Ultimaker Cura, Blender

Oct 2023 – Mar 2024

- Designed and fabricated a four-wheel steering system using a gear-based mechanism.
- Implemented positive, negative, and neutral steering phases using advanced gear mesh techniques.
- Worked in a team of two engineers to successfully deliver the project.

### Rick and Morty Application | HTML, CSS, JavaScript, External API, Docker

Dec 2024

- Developed an application interacting with an external API to fetch dynamic data.
- Implemented user interactions for liking/unliking characters with real-time UI updates.

### Job Finder Application | HTML, CSS, JavaScript, React.js, External API

Feb 2025

- Built an application to fetch and display remote job data using CRUD operations.
- Integrated client-side routing for seamless navigation.

### Satellite Monitoring System | HTML, CSS, JavaScript, Vue.js, Python, Flask, Docker

Mar 2025

- Developed a back-end with Python and Flask, creating a database with three tables for satellite data management.
- Created and exposed a CRUD API for interacting with satellite data on the front-end side.
- The system is designed to scale for further satellite data analysis with potential for future machine learning applications.

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## TECHNICAL SKILLS

- **Programming Languages:** JavaScript, Python, HTML/CSS
- **Frameworks & Libraries:** Flask, Flask-Alchemy, SQLAlchemy, Vue.js, React.js
- **Tools:** Docker, Git, GitHub, GitLab
- **Databases:** MySQL, SQLAlchemy
- **Design & Engineering Software:** SolidWorks, AutoCAD, MATLAB, Ultimaker Cura
- **Cloud & DevOps:** Kubernetes
- **Operating Systems:** Linux
- **Version Control:** Git

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## PROFESSIONAL SKILLS

- Proficient in cloud-native tools, particularly Docker and Kubernetes.
- Strong knowledge of full-stack development, including both front-end and back-end technologies.
- Skilled in industrial design applications (SolidWorks, AutoCAD) and system analysis.
- Quick learner with an ability to adapt to fast-paced environments.
- Possesses problem-solving abilities with critical thinking and creative solutions.
- Strong communication skills, both in team environments and independently work environments.
- Demonstrated ownership and integrity in handling projects.
- Eager to learn from others and continuously develop personal skills.