

# Einstein Mokuua

## Fullstack Engineer

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### Professional Summary

Results-driven Fullstack Engineer with a unique combination of software engineering expertise and mechatronics engineering background. Specializing in building scalable web applications using modern technologies and frameworks. Demonstrated experience in developing both frontend and backend solutions, with a strong foundation in data science and machine learning. Proven track record of delivering high-quality software solutions while maintaining a focus on user experience and system performance.

# Technical Expertise

## Frontend Development

- React.js with Hooks and Context API
- TypeScript and Modern JavaScript (ES6+)
- HTML5, CSS3, SASS/SCSS
- Redux for State Management
- Responsive Web Design
- Material-UI and Tailwind CSS
- Jest and React Testing Library

## Backend Development

- Python (Django, Flask)
- RESTful API Design
- Database Design and Management
- SQL and NoSQL Databases
- Authentication & Authorization
- API Security Best Practices
- Microservices Architecture

## Cloud & DevOps

- AWS Cloud Services
- Docker Containerization
- CI/CD Pipeline Implementation
- Version Control (Git)
- Linux System Administration
- Cloud Security Practices

## Data Science & ML

- Machine Learning Algorithms
- Data Analysis and Visualization
- Python Data Science Stack
- Statistical Analysis
- Predictive Modeling

# Professional Experience

## Software Engineering Student

Moringa School | February 2024 - October 2024

Intensive software engineering program focusing on full-stack web development and modern software practices.

- Developed and deployed multiple full-stack web applications using React, TypeScript, and Django
- Implemented secure authentication systems using OAuth2 and JWT tokens
- Created responsive user interfaces with modern CSS frameworks and best practices
- Collaborated with team members using agile methodologies and Git workflow
- Achieved consistent high performance in project deliverables and assessments

React    TypeScript    Django    PostgreSQL    Git    AWS

## Data Science Research Assistant

JKUAT | 2023

Conducted research and implemented machine learning solutions for real-world problems.

- Developed predictive models using Python's scientific computing stack
- Performed data cleaning and preprocessing on large datasets
- Created visualizations to communicate findings effectively
- Collaborated with faculty on research projects

Python    Pandas    Scikit-learn    TensorFlow

# Notable Projects

## E-Commerce Platform

*Moringa School Capstone Project*

Built a full-featured e-commerce platform with advanced features and secure payment integration.

- Implemented user authentication and authorization system
- Integrated payment gateway and order management
- Developed admin dashboard for inventory management
- Implemented real-time cart updates using WebSocket

React    Redux    Django    PostgreSQL    WebSocket

## Machine Learning Prediction System

*JKUAT Research Project*

Developed a prediction system using machine learning algorithms for industrial applications.

- Implemented multiple ML models for comparison
- Created API endpoint for real-time predictions
- Developed interactive dashboard for data visualization

Python    Flask    TensorFlow    D3.js

# Education

## BSc. Mechatronics Engineering

*Jomo Kenyatta University of Agriculture and Technology | 2021 - 2026 (Expected)*

Relevant Coursework:

- Control Systems and Automation
- Embedded Systems Programming
- Digital Signal Processing
- Robotics and AI

## Software Engineering

*Moringa School | 2024*

Intensive full-stack development program with focus on modern web technologies and industry best practices.

# Certifications & Training

## **AWS Cloud Computing**

*ALX | 2024*

- Cloud Architecture
- AWS Services
- Cloud Security

## **Cybersecurity Fundamentals**

*Cisco NetAcad | 2024*

- Network security principles
- Security operations
- Threat detection and mitigation
- Security compliance and standards
- Incident response procedures

## **ICDL Certification**

*Kenya Institute of Management | 2021-2022*

- Advanced spreadsheet applications
- Database management
- Professional presentation skills
- Document processing and management

## Additional Technical Skills

### Development Tools

- ▶ VSCode, PyCharm, Jupyter Notebooks
- ▶ Postman API Testing
- ▶ Chrome DevTools
- ▶ Git & GitHub
- ▶ Docker Desktop
- ▶ AWS Console

### Data Visualization

- ▶ D3.js for interactive visualizations
- ▶ Plotly.js for scientific plotting
- ▶ Chart.js for web analytics
- ▶ Matplotlib and Seaborn
- ▶ Tableau basics

### Database Technologies

- ▶ PostgreSQL administration
- ▶ MongoDB for NoSQL solutions
- ▶ Redis caching
- ▶ Database optimization
- ▶ SQL query optimization

## Languages

### English

Professional Working  
Proficiency

### Kiswahili

Native Proficiency

### Kisii

Native Proficiency

## Professional Memberships & Activities

### AIESEC Member

*2023 - Present*

- Participated in international leadership development programs
- Collaborated with diverse teams on global projects
- Developed cross-cultural communication skills
- Engaged in community service initiatives

### Engineering Students Association

*JKUAT | 2021 - Present*

- Organized technical workshops and seminars
- Participated in engineering competitions
- Mentored junior engineering students
- Contributed to curriculum development feedback



## References

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### **Mokua Nyandieka**

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