Abdurrahman Kabir

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Professional Summary

Motivated and detail-oriented Electrical Engineering student with a strong academic background and growing hands-on experience in Artificial Intelligence, Control Systems, Embedded Systems, and Full-Stack Web Development. Passionate about solving real-world problems through smart systems and automation. Currently building projects that combine software, hardware, and AI - and committed to continuous learning and improvement.

Education

Ahmadu Bello University, Zaria
B.Eng. Electrical Engineering
Expected Graduation: September 2027
CGPA: 4.95 / 5.00

Skills

Programming & Tools

- Python, JavaScript, Node.js, Express, MySQL

- React, Redux Toolkit, HTML, CSS, Tailwind CSS

- Git & GitHub, VS Code, Postman, Firebase

- MATLAB (learning), Arduino (beginner level)

AI & Data

- Supervised Learning: Regression, Classification

- Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn

- Model evaluation, preprocessing, and performance metrics

Engineering & Hardware

- Embedded Systems (Arduino-based projects)

- Control Systems (theoretical foundation, building practical experience)

Projects

Predictive Maintenance in Oil & Gas (AI Project)
Trained machine learning models to predict equipment failure using real-time sensor data from the AI4I 2020 dataset. Focused on feature engineering and performance comparison.

Course Management Platform (Full-Stack Project)
Developed a simple course tracker using React, Redux Toolkit, Node.js, Express, and MySQL (no authentication). Emphasis on clean UI, backend integration, and SQL skills.

Task Tracker App (Mini Project)
Used React and Redux Toolkit to manage and filter daily tasks. Helped solidify state management concepts.

Certifications & Programs

- PLP Software Engineering Scholarship (ALX Africa) - Ongoing

- Web Development Certificate - Frontend Foundations and React

- Node.js Certificate - Backend API Development

- Intro to Python Programming - Completed

- Machine Learning Foundations - Self-taught via documentation & hands-on practice

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Career Goals

- **Short Term**: Secure an internship with top energy or automation companies like Shell or Mainstream Energy

- **Long Term**: Pursue a Master's degree in Control Systems & Artificial Intelligence

- **Vision**: Build intelligent systems that improve energy efficiency and industrial automation across Africa