

# MUSTHAPHA RIDWAN

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Lagos, Nigeria

## EDUCATION

### Bachelor of Science in Mechanical Engineering

University of Lagos, Lagos, Nigeria

2023 - Present

### West African Senior School Certificate Examination (WASSCE)

Science Major

2014 – 2020

## TECHNICAL SKILLS

**Programming Languages:** JavaScript

**Backend Technologies:**

- Node.js
- Express.js
- RESTful API
- Redis
- Nest.js

**Frontend Technologies:**

- React.js
- HTML5
- CSS3
- Tailwind CSS

**Database:** PostgreSQL

**Development Tools:**

- Git
- GitHub

# PROJECTS

## Task management system AI age

*Backend Developer*

A multi-user task management system where project managers assign tasks to team members, members view and complete their assigned tasks, and project managers can monitor all assigned tasks and track team progress through real-time completion status updates.

### Features:

- AI-Powered Analysis: Leverages Google Gemini 2.5 Flash for intelligent Professional but friendly responses, Clear confirmations and Celebrate completions
- Team progress tracking: Task assigners (e.g. product manager) can track task completion status and get overview of team progress.
- Natural Conversation: Chat naturally with the agent to get repository information
- Memory System: Maintains conversation context using LibSQL storage and lowdb to persist task, assigner, assignee and due date.
- Agent-to-Agent Protocol: Supports A2A (Agent-to-Agent) communication via JSON-RPC 2.0
- Observability: Built-in AI tracing and monitoring

**Tech Stack:** Typscript, Lowdb, Mastra

## CampusLink (In Development)

*(Collaborative) Backend Developer*

A comprehensive campus management platform designed to connect students, faculty, and campus resources through a scalable microservices architecture.

### Key Contributions:

- Setup the project using microservices architecture and Docker containerization for scalability and maintainability
- Implemented secure JWT authentication system with access/refresh token model for session management
- Built OTP verification service with Redis caching to optimize performance and reduce database load
- Integrated email delivery system for password reset and account verification workflows
- Developed user profile management system with image upload functionality using Multer and Cloudinary
- Provided the RESTful APIs Documentation for the available endpoint to the Frontend developer for integration with the frontend.

**Tech Stack:** Node.js, Express.js, PostgreSQL, Redis, Docker, JWT, Cloudinary, Multer

## **RecycleFlux (In Development)**

(Collaborative) Backend Developer | Web3 Integration

A blockchain-based recycling incentive platform that promotes environmental sustainability through cryptocurrency rewards (RFX token mining).

### **Key Contributions:**

- Developed user management system handling profile data
- Integrated Ethers.js library to interact with Ethereum smart contracts
- Implemented real-time transaction tracking and balance fetching from blockchain
- Created API endpoints to bridge blockchain data with frontend user interface

**Tech Stack:** Node.js, Express.js, Ethers.js

## **Conference-ticket-generator**

*Frontend Developer*

Conference Ticket Generator is a dynamic React application that allows users to create personalized event tickets with custom information and photo uploads. Features comprehensive form validation, real-time ticket preview, file upload functionality, and responsive design.

**Tech Stack:**React Js, CSS

## **SOFT SKILLS**

- **Problem Solving:** Strong analytical skills with ability to break down complex technical challenges
- **Communication:** Effective written and verbal communication skills for technical and non technical audiences
- **Teamwork:** Collaborative approach with experience working in development teams
- **Adaptability:** Quick learner with ability to adapt to new technologies and frameworks
- **Creativity:** Innovative thinking applied to user experience design and problem-solving