

JOHN NATHANIEL ADIKWU

Telecommunications Engineering Graduate

+2347015976386 john.jadikwu@gmail.com <https://www.linkedin.com/in/john-adifiwu-322413200>
243B Kirikiri Road Olodi-Apapa, Lagos. <https://portfolio-rust-gamma-65.vercel.app>



SUMMARY

I am a passionate telecommunications engineering graduate with extensive experience in web development, IT support, and engineering internships. Skilled in various programming languages and technologies including HTML, CSS, JavaScript, and Node.js, I am dedicated to continuous learning and professional growth while contributing to impactful projects and initiatives

EXPERIENCE

FTTH Engineer/GPON Design

ipNx Nigeria Limited

07/2024 - Present

A leading telecommunications company in Nigeria

- Conducted feasibility studies and site surveys.
 - Collected and stored survey data using GIS and databases.
 - Designed FTTH network layouts, including fiber routes and node placements.
 - Estimated materials required for service activation.
 - Selected appropriate network topology (PON, GPON, EPON, etc.).
 - Created network diagrams, GIS maps, and documentation.
 - Configured a wide range of hardware devices such as switches, routers, access points, repeaters, and general networking.
 - Supervised fiber cable installations
 - Ensured proper splicing, termination, and connectorization of fiber cables.
 - Coordinated with contractors and field teams for execution.
 - Implemented Optical Line Terminals (OLTs), Optical Network Terminals
- Performed Optical Time-Domain Reflectometer (OTDR) and power meter tests.
 - Troubleshoot network issues such as fiber cuts, signal loss, or splicing errors.

Web Development Intern

Solemntech Computer Institute

05/2024 - Present

A computer institute specializing in web development

- Created and modified websites using latest web technologies
- Reviewed code with senior developers to ensure quality, readability, and adherence to best practices.
 - Developed responsive user interfaces using React.js and related libraries.
 - Debugged application and optimized frontend and backend performance.
 - Built RESTful APIs using Node.js and Express.js.
 - Integrated frontend and backend components.
 - Consumed third-party APIs, and integrated Stripe, and Paystack payment gateways.
 - Deployed applications on cloud platforms like Render, Vercel, Netlify, and Heroku.
 - Used Git and GitHub/GitLab for version control.
 - Wrote and ran unit tests and integration tests.
 - Handled authentication and authorization using JWT tokens.
 - Created clear documentation to support code readability, maintenance, and knowledge sharing among team members.
 - Designed schemas and models in MongoDB using Mongoose.
 - Used Postman and Jest for API testing.

KEY ACHIEVEMENTS

Awards and Recognition

Achieved Most Intellectual award from NFCS and was recognized on the Vice Chancellor's List at FUTMINNA

Leadership Experience

Led projects as a group leader and Chairman, demonstrating strong leadership and organizational skills

SKILLS

CSS Cybersecurity DHCP DNS

ECommerce GitHub Handlebars

HelpDesfi HTML Huawei

JavaScript Jest JIRA

Jira Service Desfi JSON Jupyter

Jupyter Noteboofi Linux Mac OS

MongoDB Mapbox MATLAB

Microsoft Office Microsoft Suite

Next.js Pacfiet Tracer

Payment Gateways Postman

Python QGIS React SendGrid

SQL Stripe Tailwind Vercel

VPN XAMPP Node.js Express.js

PROJECTS

Portfolio Website

01/2025 - 02/2025

A personal portfolio website

- Developed a personal portfolio showcasing my projects using Next.js
- Managed project on GitHub and deployed on Vercel, ensuring CI and CD
- Used TailwindCSS to create a clean UI

EXPERIENCE

IT Support / Help Desk Analyst Intern

ipNx Nigeria Limited

03/2022 - 08/2022

A leading telecommunications company in Nigeria

- Troubleshoot and resolved application issues promptly.
- Managed IT issues via Help Desk services.
- Participated in team meetings and project discussions.
- Presented performance reports to ensure goal achievement.
- Inspected, repaired, and upgraded faulty laptops and IT equipment.
- Troubleshoot and resolved connectivity issues.
- Ensured ticket resolution within SLA.
- Configured, installed, and updated operating systems and applications.
- Troubleshoot and resolved printer issues.
- Managed antivirus and security software to protect against threats.
- Assisted with password resets and security policies (MFA, access control).
- Monitored server performance and system health.
- Managed shared drives and file permissions.
- Enforced IT security policies and best practices.
- Educated users on Cybersecurity awareness (phishing, malware protection).
- Documented common troubleshooting steps and resolutions for future reference.

EDUCATION

Bachelor of Engineering. Telecommunications Engineering

Federal University of Technology, Minna (FUTMINNA)

12/2017 - 01/2024

CERTIFICATIONS

Huawei HCIA Datacom v1

12/2023

PUBLICATIONS

I3C Conference

https://drive.google.com/file/d/1VUWQU_Og1E6KKzjBVH69GgBOpiZUeAcJ/view?usp=drive_link

12/2017 - 01/2024

Smart Traffic Management System for Smart Cities with Emergency Prioritization - As urban populations continue to grow, the demand for efficient traffic management in smart cities becomes increasingly pressing. Traditional traffic lights, often lead to unnecessary delays for motorists and fail to accommodate vehicle priorities. This paper proposes a Smart Traffic Management System (STMS) tailored for smart cities, focusing on emergency prioritization.

INTERESTS

Environmental Protection and Sanitation

Engaged in environmental sustainability efforts through community service

PROJECTS

E-commerce Web App

09/2024 - Present

An e-commerce web application

- Developed a full-stack e-commerce website using React.js, Node.js, and MongoDB
- Integrated user authentication with JSON web tokens
- Added payment gateways and product search features
- Deployed the app using Vercel and maintained it on GitHub

Final Year Project

06/2023 - 01/2024

Smart Traffic Management System

- Created a smart traffic system that automatically detects congested lanes and reduces congestion.

Task Manager API

12/2023 - 06/2024

A backend Task Manager API

- Built a Task Manager API using Node.js, integrating user authentication
- Created endpoints for CRUD operations on tasks
- Tested APIs with JEST and POSTMAN
- Deployed the app using Render and maintained it on GitHub

Chat App

10/2023 - 12/2023

A chat application

- Built a full-stack chat application using socket.io and Node.js
- Implemented geolocation feature for users
- Designed the UI using CSS
- Deployed the app using Render and maintained it on GitHub

Weather App

10/2022 - 01/2024

A weather application

- Developed a weather app utilizing Weatherstack and Mapbox API
- Used Handlebars for template rendering
- Designed the site using CSS
- Deployed the app on Render and maintained it on GitHub