

# NWANERI ANDREW

Full Stack Developer | Data Analyst | Automation Specialist

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## PROFESSIONAL SUMMARY

Highly motivated **Full Stack Developer** and **Data Analyst** specializing in building **scalable web applications** and **intelligent automation systems**. Proficient across the stack with **Python, JavaScript, React, and Flask**. Proven ability to integrate complex APIs (Amadeus, Flutterwave, OpenAI), manage secure databases (**PostgreSQL**), and deliver data-driven solutions through robust visualization and data science techniques (Pandas, Plotly).

## CORE TECHNICAL EXPERTISE

- **Front-End:** React, JavaScript (ES6+), HTML5, CSS3, Responsive Design, Bootstrap
- **Back-End:** Python, Node.js, Flask, Express.js, **RESTful API Development, JWT, OOP**
- **Databases:** PostgreSQL, MongoDB, SQLAlchemy (ORM)
- **Data/AI:** Pandas, NumPy, Plotly, Matplotlib, Web Scraping (Selenium, BeautifulSoup), **OpenAI API**

## SELECTED PROJECTS

### Cheap Flight Finder (React & Amadeus API)

- **Engineered** a full-stack travel application using **React** to consume and authenticate the **Amadeus API**.
- **Implemented** dynamic search filtering and successfully enabled direct flight booking functionality based on user parameters.
- *Link: <https://github.com/Andrew-nwaneri/flight-finder>*

### E-commerce Retail Platform (Flask & Flutterwave)

- **Developed** a secure online retail store featuring integrated, end-to-end encrypted payment processing via the **Flutterwave API**.
- **Created** an interactive **Flask** user-admin panel and database structure for efficient inventory and customer management.
- *Link: <https://github.com/Andrew-nwaneri/cacic-store>*

### Intelligent Automation Systems

- **Developed** a customized AI Chat-Bot using the **OpenAI API** designed for seamless integration into external applications via controlled system prompts.
- **Created and deployed** critical alerting scripts, including a **Stock Trading News Alert** using **Twilio** and automated web scraping systems to monitor prices and update data.

## **REST API for User Management**

- **Designed and implemented** secure, scalable RESTful APIs using **Flask** and **PostgreSQL** for user registration and CRUD operations.
- **Secured** all sensitive endpoints using **JWT** for token-based authentication and applied **password hashing (salting)** for database security.

## **PROFESSIONAL & INTERNSHIP EXPERIENCE**

**Web Developer** | Kallif IT Solutions (Sept 2024 – Aug 2025)

- *Implemented my technical knowledge to provide useful real world solutions to modern IT problems.*

**Industrial Trainee** | Lakowe Lakes Golf Club Limited (Feb 2022 – Jul 2022)

- Contributed to operational reporting and project documentation, applying foundational technical skills in a corporate setting.

## **EDUCATION & TRAINING**

**Federal University of Technology Owerri** | B.Eng, Agricultural and Bio-resources Engineering

**Udemy** | Full Stack Python Development