

UDOYE WISDOM CHUKWUEBUKA

Software Engineer

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Security-focused Software Engineer with 2+ years of progressive experience in the IT industry. Specialized in Application Security and Software Engineering, with hands-on expertise in Vulnerability Assessment & Penetration Testing (VAPT), Secure Software Development Lifecycle (SSDLC), and backend development, particularly for APIs and Web Applications. Proficient in Python (automation, AI) and Golang (backend, APIs), and have built a wide range of custom security tools, software, and automation scripts to support development and security objectives.

SKILLS

- **Programming Languages:** Python, GoLang, C
- **Backend Frameworks:** Gin, Gorilla Mux, FastAPI
- **Additional Frameworks & Libraries:** Flet, Stremalit, Gorm, Reflex
- **Infrastructure:** Docker, Render, Cloudflare, Virtual Machines, Ngrok, Nginx
- **API Design:** RESTful, Webhook, WebSocket, AMQP
- **Databases:** MySQL, PostgreSQL, Firebase, Redis, MongoDB
- **Other Tools & Technologies:** Burpsuite, Postman, GitHub, Synk, Obsidian, Swagger, Prometheus, Grafana, RabbitMQ, AWS, MinIO
- **Soft Skills:** Teamwork and Cooperation, Analytical Skills, Effective Communication, Independent Decision Making
- **Additional Skills:** CTFs, Social Engineering, Computer Networking, Bash scripting, Linux, OSINT
- **Certifications:** • [Ethical Hacker](#), Cisco • [Scientific Computing with Python](#), FreeCodeCamp • Cyber/Technology Job Simulation, Deloitte • [API Practitioner Level 1](#), apiMasters • [APIsec Certified Practitioner](#), APIsec University • [GoFr Summer of Code](#) • [HNG Finalist Certificate](#), HNG Tech

PROFESSIONAL EXPERIENCE

HNG TECH

REMOTE - NIGERIA

Backend Engineer

Oct-Dec 2025

- Implemented API Gateway for routing user and notification requests.
- Developed and integrated backend features (live video & audio calls) into the [Telex](#) platform.
- Designed and implemented a Team Decision Note Agent to automate 90% of finding key notes in chat logs.
- Documented every REST API endpoint and integrated tests for new features.
- Worked as a team of 50+ and led the backend team in collaboration with the mobile, frontend, and PM.

IDENTIKO INTEGRATED SOLUTIONS

ONSITE - NIGERIA

Software Developer

July-September 2025

- Designed and implemented a real-time QR code-based authentication system for access control and management.
- Optimized performance through caching mechanism and session management implementation.
- Integrated AI model for automated data processing reducing analysis time by 80%.

STRATIFY

SELF-EMPLOYED - NIGERIA

Founder, Backend Engineer

May-Present 2025

- Design and implement scalable backend architecture for content management and distribution platform.
- Develop and maintain RESTful APIs to enable seamless communication between services.
- Integrate secure authentication and authorization systems (OAuth2, JWT).
- Optimize database performance and schema design using PostgreSQL.

MRX NETWORK

CONTRACT - NIGERIA

GoLang Developer

Mar-Apr 2025

- Developed a secure and scalable backend system using GoLang to improve healthcare services.
- Designed and Implemented FHIR-compliant RESTful APIs, ensuring adherence to healthcare data standards.
- Ensured data integrity by implementing validation and reducing errors by 30%.
- Configured Docker environments for local development and testing.

CYBER & FORENSICS SECURITY SOLUTIONS

REMOTE - INDIA

Pentester Intern

Aug-Sep 2024

- Contributed to security testing initiatives aimed at assessing system vulnerabilities, demonstrating proficiency in Vulnerability Assessment and Penetration Testing methodologies.
- Conducted comprehensive penetration tests, including reconnaissance, scanning, exploitation, and post-exploitation, identifying critical vulnerabilities and providing actionable recommendations.
- Documenting the procedures and steps followed during penetration testing engagements, ensuring clarity and adherence to best practices during virtual lab assessments.
- Gained practical experience in executing industry-standard penetration testing methodologies, utilizing tools such as Nmap, Metasploit, Hydra, and Burp Suite to conduct security assessments.

PROJECT EXPERIENCE

- Sensor-Based IoT Plant Monitoring System:** [IoT Based Project](#) April-June 2024
 - Collaborated with my departmental team in the development of an IoT-based plant monitoring system.
 - Utilized Arduino and ThingSpeak to design a real-time monitoring system for soil moisture and temperature levels, automating plant irrigation.
 - Led the integration of sensor data collection and cloud-based analytics, improving irrigation efficiency by 30%.
 - Tools/Technologies:** Arduino, ThingSpeak, DHT11 sensor, Soil Moisture sensor, Python.
- CyberSpace Scanner:** [View on GitHub](#) Nov-Dec 2024
 - Built a desktop application to detect security vulnerabilities in web applications, integrating popular vulnerability scanners such as Nessus and SQLMap.
 - Achieved 85% detection accuracy for common vulnerabilities (SQL injection, XSS) and reduced manual testing time by 50%.
 - Tools/Technologies:** Python (Flet framework), OWASP ZAP, WPScan, Firebase.
- CyberSpace Network Inspector:** [View on GitHub](#) Feb 2025
 - Developed a Streamlit-based application to monitor and visualize real-time network traffic, capturing performance and security metrics.
 - Increased network visibility and analysis efficiency by 40%, enabling faster detection of anomalies and protocol breakdowns.
 - Tools/Technologies:** Python (Streamlit, Scapy, Plotly, Folium), GitHub.
- Autobot:** [View on GitHub](#) [View on Web](#) Sep 2025
 - Implemented a workflow automation system to streamline personal and business data tasks.
 - Supports uploading files (Excel/CSV) to process them into dataframes and generate meaningful reports.
 - Uses Gemini API and Streamlit for caching and visualization.
 - Tools/Technologies:** Streamlit (Python framework), Streamlit Cache, Pandas, Openpyxl
- MediRecommend:** [View on GitHub](#) Nov 2025
 - Implemented a production-ready Drug Recommendation System using ML, NLP, and Sentiment Analysis.
 - Supports tracking of previous searches per user and interactive UI.
 - Uses a hybrid ranking for sentiment scores with model analysis dashboard for performance metrics and charts.
 - Tools/Technologies:** Reflex (Python framework), LightGBM, VADER, Matplotlib, Scikit-learn, SQLite
- Xnoise:** [View on Web](#) Dec 2025
 - Developed a production-ready mobile application that keeps your environment quiet with real-time monitoring, instant sound alerts.
 - Tracks ambient sound levels continuously with precision decibel measurement, improving real-time noise monitoring by 100%.
 - Implemented a notification system with a sound alert message when noise exceeds your set threshold.
 - Tools/Technologies:** React Native, Expo Go, Golang, PostgreSQL, SQLite, Webhook.
- PixSync:** [View on Web](#) Dec 2025
 - Developed a production-ready mobile application that syncs photos and videos to everyone's gallery in a shared session.
 - Supports real-time session chat for sharing conversations using websocket.
 - Implemented a notification system when a new photo or video is taken in a session.
 - Tools/Technologies:** React Native, Expo Go, Golang, PostgreSQL, MinIO, WebSocket.

EDUCATION
