UDOYE WISDOM CHUKWUEBUKA

Software Engineer

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Security-focused Software Engineer with 3+ 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.
- Debugged build issues and optimized multi-stage Dockerfile.
- 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	REMOTE - NIGERIA
Backend Engineer	**May-Present 2025**

- Design and implement scalable backend architecture for our 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 leveraging go modules and libraries, and ensuring adherence to healthcare data standards.
- Provided detailed pull request descriptions and collaborated with the team during code reviews to ensure proper FHIR compliance.
- 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.
- **Scientific Computing with Python:** View on GitHub   **Oct-Dec 2024**
  - Developed multiple Python projects using Object-Oriented Programming (OOP) principles to solve scientific computing challenges, including simulations, data analysis, and mathematical modeling.
  - Reduced computational run-time of core algorithms by 20% through optimized code and efficient data structures.
  - **Tools/Technologies:** Python (Data Structures and Algorithms), Pycharm, GitHub.
- **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
- **Drug Recommendation System:** 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

EDUCATION

BELLS UNIVERSITY OF TECHNOLOGY   **Ota, Ogun State**
Bachelor of Engineering, Computer Engineering   **OCT 2022 (In view)**