Blessing U. Nwala

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Bowling Green, Ohio - 43402, USA

Professional Summary

I'm a results-driven Computer Engineer and Data Analyst with hands-on experience in machine learning, technical support and cyber security. I bring over 4 years of combined expertise in solving real-world problems using Python (NumPy, Pandas, TensorFlow), SQL, Power BI, and Excel whether it's detecting sepsis in real time or analyzing student lab usage to improve scheduling by 70% and optimize resource tracking. I've supported enterprise environments using tools like Dameware, KACE, and Splunk, and collaborated on forensics investigation projects using Wireshark, Snort, Magnet Axiom, Autopsy and Volatility. I thrive in fast-paced, high-impact roles, and I'm passionate about building intelligent, inclusive systems that simplify complex processes and protect users. Now, I'm looking forward to bringing this blend of analytical skill and technical execution to a high-tech, mission-driven team.

Experience

- **Bowling Green State University [🌐]** *August 2024- May 2025*
  Technical Support and Data Analyst Bowling Green, Ohio, USA
  - I used Power BI and Excel to analyze student attendance data, creating interactive dashboards and bar charts that helped faculty visualize lab traffic patterns and improve scheduling efficiency by over 60%.
  - I performed data-driven analysis on lab usage trends, enabling optimized course planning and resource allocation.
  - I built custom dashboards with heatmaps and bar charts to track equipment utilization, increasing operational visibility and supporting data-informed faculty decisions.
  - I maintained daily manual logs of lab equipment and medication usage, improving inventory tracking accuracy by 75% and helping faculty manage supply replenishment cycles.
  - I diagnosed and resolved hardware and software issues on simulation manikins and lab computers, maintaining 98% system uptime throughout my tenure.
  - I partnered with Laerdal's technical support team to troubleshoot advanced simulation hardware issues, reducing resolution time by over 50%.
- **Julius Berger** 🌐 *Oct 2021 – Aug 2023*
  IT Support Engineer
  - I provided remote desktop support to over 150 users using Dameware, resolving hardware and software issues with a 96% first-contact resolution rate.
  - I logged and resolved tickets through the KACE system, achieving 98% SLA compliance across all IT service requests.
  - I created and managed Active Directory accounts, streamlining onboarding and access control for more than 200 employees.
  - I performed OS reinstalls, driver updates, and system preparations, reducing deployment delays by 30% and ensuring timely workstation availability.
  - I maintained HP printers and scanners, resolving both hardware and network errors to improve device uptime by 90%.
  - I worked closely with the IT team to troubleshoot LAN issues and reconfigure routers, cutting average local network downtime by 85%.
- **PJ Rapha Care Limited** *Sep 2019 – Oct 2021*
  Data Engineer
  - I designed and deployed Power BI dashboards to track antenatal visit frequencies, delivery outcomes, and follow-ups, improving care planning visibility and increasing maternal care effectiveness by 22%.
  - I cleaned and standardized patient data using Excel and MySQL, reducing data retrieval time by 45% and improving reporting accuracy to 99%.
  - I performed statistical analysis on maternal and neonatal data, uncovering risk patterns that led to policy shifts and a 15% improvement in intervention timing.
  - I created anomaly detection logic in Excel to flag high-risk pregnancies, supporting earlier clinical action and reducing emergency delivery cases by 15%.
  - I led weekly presentations for medical staff using data visualizations to guide care strategies, directly informing ICU and pediatric case prioritization.
  - I ensured daily backup and validation of hospital records, maintaining long-term data integrity at a 99% consistency rate across all digital logs.

EDUCATION

- **Bowling Green State University** *Aug 2023 – May 2025*
  Master of Science in Computer Science, Specialization: Cybersecurity and Digital Forensics Bowling Green, OH, USA
  ◦ GPA: 3.50/4.00
- **University of Port Harcourt** *Nov 2018 – Apr 2023*
  Master of Science in Computer Science
  ◦ GPA: 4.18/5.00
- **All Nations University** *Sep 2013 – May 2017*
  Bachelor of Engineering in Computer Engineering
  ◦ GPA: 3.05/4.00

PROJECTS

- **Real-Time Sepsis Prediction System and Monitoring Dashboard** *Apr 2025*
  Tools: Python, XGBoost, Streamlit, Telegram API, Zepp API, Strava API [] []
  ◦ Built a real-time ICU sepsis prediction tool using wearable data, achieving 97.67% accuracy and 0.83 AUC.
  ◦ Integrated Zepp and Strava APIs for live vitals; deployed visualization interface via Streamlit.
  ◦ Connected clinician alerts via Telegram Bot for urgent notification and patient updates.
- **Adaptive Color Quantization for Image Compression** *Dec 2024*
  Tools: Python, TensorFlow, t-SNE, CIFAR-100 []
  ◦ Developed an autoencoder-based system to compress images by complexity, achieving PSNR 26.09 and SSIM 0.8558.
  ◦ Used t-SNE to visualize compressed latent spaces and enhance fidelity on small devices.
- **Splunk-Based Cybersecurity Lab Simulation** *Mar 2025*
  Tools: Splunk, Kali Linux, Nmap, VirtualBox
  ◦ Simulated cyberattacks in a lab environment and monitored using Splunk dashboards.
  ◦ Built correlation rules and alerts, achieving 95% detection accuracy on test incidents.
- **Wetland Chemical Visualization Platform** *Dec 2023*
  Tools: HTML5, JavaScript, Google Maps API []
  ◦ Built an interactive web tool to visualize 30-month soil and water chemical trends in wetlands.
  ◦ Enabled policy decision-making via map-based dashboards and variable selectors.
- **IoT-Based Smart Livestock Monitoring System** *Dec 2021*
  Tools: Python, MySQL, Fuzzy Logic, IoT Sensors []
  ◦ Developed an IoT health monitoring system with fuzzy logic to flag livestock anomalies.
  ◦ Achieved 89% detection accuracy in predicting abnormal patterns on remote farms.
- **Enhanced Walking Stick for Visually Impaired Patients** *Feb 2017*
  Tools: Arduino, Ultrasonic Sensors, Water Sensor, Vibration Motor []
  ◦ Co-developed a low-cost assistive device that achieved 94% obstacle detection accuracy.
  ◦ Enabled real-time haptic feedback for better safety in navigation for the visually impaired.

SKILLS

- **Programming Languages:** Python, Java, C++, Embedded C, JavaScript, HTML5
- **Web Technologies:** HTML5, CSS3, JavaScript, Streamlit, Flask
- **Database Systems:** MySQL, SQLite, PostgreSQL
- **Data Science & Machine Learning:** NumPy, Pandas, Seaborn, Matplotlib, Scikit-learn, XGBoost, PyTorch, TensorFlow, Autoencoders, Gradient Boosting, SMOTE, Plotly
- **Cloud Technologies:** Google Cloud Platform (GCP), Firebase, Streamlit Cloud
- **DevOps & Version Control:** Git, GitHub, GitLab, KACE Ticketing System, CI/CD Basics
- **Remote Support & Identity Tools:** Dameware, GlobalProtect, AnyDesk, Okta
- **Digital Forensics & Security:** Autopsy, Magnet Axiom, SleuthKit, Volatility, Foremost, Scalpel, Wireshark, Snort, File Carving, Memory Analysis, Windows Registry Inspection
- **Data Visualization Tools:** Power BI, Tableau, Excel (Pivot Tables, Dashboards), Draw.io

- **Operating Systems & Tools:** Windows, macOS, Ubuntu, Kali Linux, MS Office 365, Visual Studio, Jupyter Notebook, LAN Administration
- **Soft Skills:** Communication, Teamwork, Problem Solving, Adaptability, Critical Thinking, Time Management, Collaboration, Research Writing, Presentation Skills, Initiative
- **Research Skills:** Quantitative Analysis, Experimental Design, Data Interpretation, Report Writing, Literature Review, Academic Collaboration

Volunteer Experience

- **Community Health Volunteer** *Sep 2019 – Oct 2021*
  PJ Rapha Care Foundation
  - Provided philanthropic outreach across underserved communities, supporting the delivery of clean water, clothing, and medical supplies to over 500 individuals.
  - Assisted in health service coordination for antenatal mothers and children, improving local care access by 30%.
  - Contributed to food distribution programs, ensuring consistent nutritional support during outreach missions.
  - Helped organize community health workshops and hygiene awareness sessions, driving behavioral change in sanitation practices.
  - Collaborated with multidisciplinary teams during field operations, enhancing communication and coordination skills.

Professional Memberships

- **Women in CyberSecurity (WiCyS)**, Member ID: 90453876 *Jan 2025 – Jan 2026*
- **MLHC Conference Attendee**, OpenReview ID: ~Blessing_Uchechi_Nwala1 *2025*
- **ORCID Registry**, ORCID ID: 0009-0001-9697-5480 *Current*

Certifications

- **IBM Cybersecurity Analyst** *Feb 2024*
- **CPR / First Aid Certification** *Jan 2024*
- **Project Management** *Jan 2019*
- **HSE Levels 1, 2, and 3** *Jan 2019*
- **Environmental Impact Assessment** *Nov 2018*
- **Quality Management Systems** *Jan 2019*
- **Data Science Tools (IBM)** *Dec 2020*
- **Diploma in Data Services** *Dec 2020*
- **Diploma in Robotic Process Automation** *Dec 2020*
- **IBM Python for Data Science** *Sep 2020*
- **IEEE Robotics and Raspberry Pi Workshop** *Mar 2014*
- **Computer Networking & Digital Network Security** *Apr 2020*
- **COSHH365 Software Certification** *May 2020*
- **Udemy CompTia Security+ Certification** *May 2021*

Language Proficiency

Languages: English (Proficient)

References

References available upon request.