

# Blessing U. Nwala

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## EDUCATION

### BGSU

MS COMPUTER SCIENCE  
2025 | Bowling Green, OH

### UNI. OF PORT HARCOURT

MS COMPUTER SCIENCE

### ALL NATIONS UNIV.

BE COMPUTER ENGINEERING

## LINKS

GitHub:// [nwalablessing](#)

GitLab:// [nwalablessing0](#)

Portfolio:// [nwalablessing.github.io](#)

## COURSEWORK

### GRADUATE

Data Science Programming  
Unsupervised Machine Learning  
Data Visualization  
Compiler Design and Construction  
Research Methods  
Software Methodology  
Artificial Intelligence  
Software Engineering  
Database Systems

### UNDERGRADUATE

Adv. Operating Systems  
Object Oriented Programming  
Data Structures & Algorithms  
Data Mining  
Embedded Systems  
Unix/Linux Programming

## SKILLS

### PROGRAMMING

Python • C++ • Java • JavaScript • SQL

### MACHINE LEARNING

PyTorch • TensorFlow • Scikit-learn • XGBoost • CNNs • A/B Testing • NumPy • pandas • Plotly

### CLOUD & DEVOPS

AWS • Streamlit • Power BI • Git • Azure • Render • CI/CD

## EXPERIENCE

### Genentech

IT Support Specialist

Jul 2025 – Present | South San Francisco, CA

- Resolved hardware, software issues for 200+ end users, reducing ticket backlog by 25%.
- Streamlined IT workflows by documenting fixes in ServiceNow, improving resolution speed and knowledge sharing.

### Bowling Green State University

Research Software Engineer

Aug 2024 – May 2025 | Ohio, USA

- Built ensemble models (XGBoost, RF, LR) on ICU time-series data, achieving 97.6% sepsis prediction accuracy.
- Integrated Strava & Telegram REST APIs into Streamlit dashboards for live ICU alerts.

### Julius Berger Plc

Software Engineer

Oct 2021 – Aug 2023

- Trained time-series models on 150K+ logs (RF, XGBoost), boosting fault prediction to 98.2% and cutting downtime by 70%.
- Ran A/B tests against manual thresholds; deployed Golang REST APIs with Power BI dashboards for SLA compliance.

### PJ Rapha Care

Software Engineer

Sep 2019 – Oct 2021

- Built XGBoost/logistic models on maternal vitals, improving early risk detection by 60%.

## RESEARCH & PROJECTS

### Real-Time Sepsis Prediction [Streamlit] [GitHub]

Python, XGBoost, Streamlit

- Built a real-time prediction and monitoring software integrating Zepp/Strava REST APIs for live vitals; evaluated with train/test split yielding 97.6% accuracy, 0.83 AUC, F1 Score, recall, and precision, saved best model in a .pkl file and deployed via Streamlit.
- Connected Telegram bot for clinician alerts, enabling live notifications.

### Adaptive Color Quantization [GitHub]

Python, NumPy, t-SNE, CIFAR-100 dataset

- Engineered an autoencoder achieving PSNR 26.09 and SSIM 0.86 on CIFAR-100, with t-SNE latent visualizations to validate compression quality for small-device fidelity.

### Pricing Optimization System

PyTorch, AWS SageMaker, Lambda, S3

- Built feedforward Neural Network forecasts for dynamic pricing, deployed on SageMaker with automated retraining triggered by new data in S3.
- Monitored with Lambda + CloudWatch for scalable, feedback-driven updates.

### Serverless Conversational AI Chatbot

GPT-3.5, AWS Lambda

- Created NLP chatbot using GPT-3.5 for intent/entity tasks.
- Deployed on API Gateway + Lambda for scalable 24/7 support.