Omoroje Benjamin Alimele

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Technical Skills

Languages: Python, JavaScript, TypeScript, HTML, CSS, SQL, Java, C,

Frameworks & Libraries: React, FastAPI, Next.js, Node.js, Pandas, NumPy, scikit-learn, TensorFlow/Keras, PyTorch, XGBoost

AI/ML: Large Language Models (LLMs), Generative AI, Neural Networks, NLP, Computer Vision, Data Pipelines

Tools & Platforms: Microsoft Excel, Office 365, Git, GitHub, Docker, Vercel, Render, Android Studio, Google Cloud Platform

Education

Acadia University — Wolfville, NS

Bachelor of Science in Computer Science with Honors ***(Co-op)*** | ***GPA: 4.19/4.33*** | *Dean's List* — *Jan. 2025 – Sept. 2028*

- **Relevant Coursework:** Data Structures & Algorithms, Computer Architecture, Object-Oriented Programming

Relevant Experience

Technical Assistant — September 2026 – Present

Acadia Launchbox — *Wolfville, NS*

- Redesigned **5+ website pages**, improving navigation and accessibility for LaunchBox's **1,000+ annual visitors**.
- Developed **AI automations** to streamline administrative processes to reduce manual work by **10+ hours** monthly.
- Collaborated with **4 staff members** to identify technical needs and implement solutions across LaunchBox operations.

Undergraduate Research Assistant — June 2026 – Present

Acadia University — *Wolfville, NS*

- Synthesized findings from **15+ papers** on **CNN** and **LSTM** temporal modeling to inform model architecture decisions.
- Designed a preprocessing pipeline for **56,880** skeleton data samples using **NumPy**, **Pandas**, and **Python**.
- Collaborated with faculty to troubleshoot challenges, communicate setbacks, and adapt research direction as needed.

AI Model Evaluator — July 2025 – Present

Outlier AI — *Remote*

- Rank **large language model (LLM)** responses across reasoning and image-based tasks against a strict rubric.
- Construct domain-specific prompts to test **LLM** reasoning limits and identify failure modes across **multimodal tasks**.
- Write detailed justifications for model response rankings into clear insights to inform **generative AI** model improvement.

Workflow Automation Extern — May 2025 – Aug. 2025

Extern — *Remote*

- Designed **Python** document processing pipelines using **NLP** & **OCR** to automate data classification and extraction.
- Implemented a **LlamaIndex RAG** retrieval system to increase information search accuracy by **80%** across documents.
- Worked independently in a fast-paced environment, managing priorities and adapting to project requirements.

Projects

Diabetes Risk Prediction Web App | *Python, XGBoost, scikit-learn, FastAPI, React, Vercel* — **Aug. 2026**

- Analyzed **90,000+** health records using **Pandas, NumPy, and scikit-learn** to train an **XGBoost** classifier achieving **81% ROC-AUC.**
- Built a **React + FastAPI** application with **SHAP** visualizations to explain how indicators influence risk predictions.
- Deployed the **full-stack** application on **Vercel** + **Render**, displaying outputs into clear interpretations for users.

Skeleton-Based Human Activity Recognition | *Python, Keras, TensorFlow, NumPy* — **September 2026**

- Engineered multi-channel skeleton features (position, velocity, bone-vectors) to improve model input representation.
- Iterated through **CNN, TCN, and BiGRU-Attention** architectures, raising validation accuracy from **55% to 74%**.
- Achieved **74%** and **84%** accuracy from the final model under **Cross-Subject** and **Cross-View** evaluation benchmarks

Other Experience

Resident Assistant — Aug. 2026 – Present

Acadia University — *Wolfville, NS*

- Support a welcoming residence community of **200+** residents through programming, and community-building activities.
- Resolve resident concerns and conflicts using de-escalation while working with residence staff to address community needs
- Design promotional media and visual info-graphics to communicate program updates across digital platforms.