

Bio Samir Gbian

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EDUCATION

University of Montreal

Bachelor of Science in Mathematics and Computer Science (Data Science)

Montreal, Canada

Aug. 2022 – May 2025

- **Relevant Coursework:** Statistical Learning, Advanced Project in ML, Linear Algebra, Probability Theory, Algorithms and Data Structures, Data Science, Theoretical Foundations in Data Science

EXPERIENCE

Full-Stack Software Developer

BIASafe AI

Jan. 2026 – Apr. 2026

Montreal, Canada

- Engineered scalable RESTful APIs with **Python (FastAPI)** and automated end-to-end type safety, ensuring highly reliable data pipelines for quantitative backtesting.
- Implemented strict CI/CD deployment gates via GitHub Actions to validate data schemas against version control, eliminating frontend-backend production mismatches.
- Leveraged agentic AI workflows to rapidly prototype data-intensive features and accelerate autonomous development cycles under tight deadlines.

Machine Learning Developer (Open Source Contributor)

Food Ordering Application Project

May 2024 – May 2025

Remote

- Engineered a hybrid recommender system integrating collaborative filtering, content-based filtering, and knowledge-based algorithms to optimize user experience.
- Contributed to full-stack development using React (frontend) and FastAPI (backend), improving code modularity and system maintainability.
- Collaborated asynchronously with contributors via GitHub, managing version control and code integration workflows.

PROJECTS & RESEARCH

Legal AI RAG Assistant | *n8n, Supabase Vector DB, Python, LLMs*

Nov. 2025 – Jan. 2026

- Engineered an automated Retrieval-Augmented Generation (RAG) data pipeline using n8n to ingest, process, and query complex, domain-specific legal documents.
- Integrated Supabase as a vector database to manage high-dimensional data embeddings, optimizing document retrieval and ensuring high-quality data feeds for LLM endpoints.
- Designed resilient workflow orchestrations to connect front-end user requests with backend AI models, mirroring enterprise Power Automate and Copilot architectures.

Intelligent Workspace (Automation) | *n8n, React, Neon, APIs*

Nov. 2025

- Architected a cross-platform workflow using n8n to synchronize Google Drive assets with an AI-driven retrieval system, mirroring enterprise workflow automation logic.
- Integrated an advanced, multi-modal AI assistant capable of interacting with and analyzing corporate file ecosystems.
- Optimized data structures for multi-modal RAG pipelines, ensuring seamless ingestion of diverse file formats (audio, video, docs) for downstream AI analysis.

Spoken Language Classifier | *Scikit-learn, PyTorch*

Feb. 2024 – May 2024

- Collaborated in a team environment to translate theoretical data challenges into a functional analytical product, focusing on data reliability and model interpretability.
- Designed and implemented a machine learning pipeline comparing SVM, Random Forest, and Neural Network algorithms, achieving 30% accuracy via feature engineering and PCA.
- Processed and analyzed 5,000+ audio samples, implementing robust feature extraction workflows.

TECHNICAL SKILLS

Data Analysis & Visualization: Power BI, Pandas, NumPy, Matplotlib, Seaborn, Plotly

Databases & Big Data: SQL (PostgreSQL), Supabase, Neon, Apache Spark, MongoDB

Tools & Automation: n8n (Workflow Orchestration), Git, GitHub, Docker, AWS, Linux

Machine Learning & AI: Scikit-learn, PyTorch, TensorFlow, XGBoost, LLM APIs, Vector Databases

Programming Languages: Python, SQL, R, JavaScript, Julia