

# Olisemeka Nmarkwe

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## EDUCATION

### Southeastern Louisiana University

Hammond, LA

*Bachelor of Science in Computer Science, Concentration: Data Science*

*May 2026*

- Honors Scholarship, EXCEL Scholarship, President's List (2022–Present)
- Student leader of International Student Union (2023 - 2025), Member of Colorstack
- Mentor for new international students through university's buddy program (2023 - 2025)

## EXPERIENCE

### AI Intern – Dialysis Care Center (Remote)

May 2025 – August 2025

*Dialysis Care Center*

*Remote*

- Built LLM-powered tools including RAG systems, vector search, and AI agents for healthcare support
- Developed semantic search with LangChain, FAISS, and Flask; integrated Hugging Face models
- Designed prompt libraries to handle complex medical queries using OpenAI APIs

### Research Assistant – EEG Data Collection (MindPrint)

Aug 2024 – Dec 2024

*Southeastern Louisiana University*

*Hammond, LA*

- Assisted in collecting high-quality EEG data from 10+ participants for machine learning research
- Supported preparation of data acquisition setups, electrode placement, and participant coordination
- Contributed to dataset creation for ML model training focused on biometric pattern recognition
- Collaborated with lead researchers to ensure data consistency and experiment validity

## PROJECTS

### PragBase | *Flask, Supabase, LangChain, Voyage AI, Docker*

August 2025

- Created and deployed blazing-fast assistant at [www.pragbase.app](http://www.pragbase.app) for businesses to build AI chatbots from their own knowledge bases
- Implemented strict per-user data isolation so only a user's private knowledge base can be accessed
- Built backend with Flask and Supabase (auth + database); deployed via Docker with OpenRouter integration
- Used LangChain for document chunking; engineered prompts to improve LLM accuracy and relevance
- Enabled users to embed their AI assistant directly into their business websites via a simple JS snippet
- App supports PDF, markdown, text, and website URLs; responds to queries in 3s - 8s during beta testing

### Inferno | *YOLO, OpenCV, Flask, MediaPipe*

May 2025

- Team leader on an opensource project on Inferno which is a fire, smoke and intruder detection system
- Solely trained a YOLOv5 model on 160k+ images; achieved 80.4 mAP @ IoU 0.5 for fire/smoke detection
- Deployed real-time alerts with Flask, Telegram API, and native alarms; integrated with Raspberry Pi
- Added intruder detection via motion-based differencing and MediaPipe face mesh
- Used multithreading and NCNN for edge optimization; processed 200+ frames/min under 250ms latency
- Authored 100% of the projects codebase as seen in the GitHub's Contribution Page

### MealCraft | *React, ASP.NET Core, SQL, Python, Openrouter API*

May 2025

- Built full-stack AI recipe app using React frontend and .NET Core REST API with SQL + EF Core backend
- Designed tag/allergy-aware recommendation engine and integrated AI recipe generator
- Collaborated in Agile team of 5 using GitHub, CI/CD, code reviews, and iterative development
- Implemented state management, authentication, and form validation with Mantine UI and Axios

## TECHNICAL SKILLS

- **Languages:** Python, JavaScript, C#, SQL
- **AI/ML:** PyTorch, TensorFlow, scikit-learn, YOLOv5/v8, Hugging Face, LangChain, MediaPipe, OpenCV
- **Web/Infra:** Flask, React, ASP.NET Core, Supabase, REST APIs, Docker, Git, CI/CD
- **Tools:** VS Code, Cursor, Colab, FAISS, Entity Framework, MNE, Linux, SEO