

XERXES LANCE LAURENZ A. LOMPON

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EDUCATION

Bachelor of Science in Computer Science
Mindanao State University – Iligan Institute of Technology

Cum Laude
Organizations: DEVCON Iligan, Computer Society

TECHNICAL SKILLS

Programming Languages	Python, TypeScript, JavaScript
Full Stack Development	React, Next.js, Vite, Django, Laravel, REST APIs
Databases	SQL, PostgreSQL, MySQL, Supabase, pgvector, Chroma
Cloud / Deployment	AWS (EC2, S3, Route 53), Laravel Forge, Vercel
AI Tools	RAG pipelines, LLM integration (Llama 3), embeddings, vector search
Developer Tools	Git, Docker, Figma, Ollama

PROJECTS

- **LikAI – Shrimp Farming Decision Support System (ICP–WCHL25 Global Finalist):** Built a production-oriented web application integrating backend services, data pipelines, and AI-powered features to support chatbot-based question answering and farm assessment workflows. Designed backend data ingestion and retrieval logic using vector databases and LLM integration. Advanced to the Global Finale, placing Top 50 out of 1,550 submissions.
- **Guideon – Learning Pathway Recommendation Platform:** Developed a full-stack web application that delivers personalized learning recommendations using Django-based backend services, PostgreSQL (pgvector), and a React frontend. Implemented recommendation logic combining user data and content similarity, and integrated AI-powered features to enhance personalization. Achieved a CUQ usability score of 71.8 (SD = ±11.7). ([View Code](#))

EXPERIENCE

Silahis Student Publication
Software Engineer

Sep 2024 – July 2025
Iligan City, Lanao del Norte

- Deployed and maintained a cloud-native publication platform on AWS (EC2, S3, Route 53), managing backend services and deployments using Laravel Forge. Improved system reliability and reduced manual maintenance through automated deployment workflows.
- Implemented mobile-responsive user interfaces in React based on Figma designs, improving front-end performance and user engagement across devices.

ChartLink (Freelance Project)
Software Engineer

Aug 2024 – Feb 2025
Iligan City, Lanao del Norte

- Constructed a scalable clinic workflow system using Supabase (auth, real-time DB, storage), boosting operational efficiency by 40%.
- Built a responsive TypeScript and Next.js frontend, reducing page load times by 30% and improving usability for clinic staff.

LEADERSHIP & COMMUNITY

- **Director for Code Camps at DEVCON Iligan:** Led and coordinated multiple regional developer events from February 2024 to June 2025, supporting logistics, speaker coordination, and participant engagement while collaborating with cross-functional teams.