

# RONNIE TALABUCON JR.

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## PROFESSIONAL SUMMARY

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Computer Science graduate with strong foundations in JavaScript, TypeScript, and full-stack web development. Experienced in building modern web applications and SPAs using React, Node.js, and SQL-based backends. Skilled in developing cross-platform desktop applications with Tauri, integrating APIs, and optimizing for performance. Also experienced in applied AI/ML, including building custom LLMs, managing embeddings with vector databases, and implementing RAG techniques to enhance responses.

## EDUCATION

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**Bachelor of Science in Computer Science - Central Philippine University, Iloilo City, Philippines (2021-2025)**

## EXPERIENCE

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### Project Leader and Game Designer – Danger Zone (Thesis Project)

- Led the end-to-end design and development of a 3D survival simulation game using a cross-functional team, aligning gameplay with the Disaster Risk Reduction curriculum through collaboration with educators.
- Utilized **Unity Game Engine** with **C#** and integrated **Firebase Realtime Database** to develop core gameplay systems and enable dynamic data handling, including real-time scores, progress tracking, and performance analytics.

### Backend Developer Intern – Department of Budget and Management Central Office (February 2025 - May 2025)

- Assisted in backend development under the **Information and Communications Technology Systems Service (ICTSS)**, contributing to internal government systems and data platforms.
- Designed and maintained SQL databases to support large-scale data management, particularly for LGU datasets involving over 42,000 barangays.
- Developed REST APIs in Java and created Python-based automation tools to streamline email alerts, Excel processing, and data uploads.
- Contributed to the **National Tax Allotment** and **National Wealth** dashboards by handling backend data integration and improving upload efficiency.
- Completed full API implementation with proper documentation, enhancing system maintainability and backend scalability.

## PROJECTS

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### Momentum (Desktop App) – AI-powered Self-Improvement Suite (In Development)

- Developing a cross-platform desktop application using **Tauri** and **React**, integrating Ollama for local LLM-based assistance.
- Implementing modular architecture for AI-driven workout and nutrition logging, task tracking, and offline-first operation.
- Building secure local storage for user data and conversation history with AES encryption.
  - Tech Stack: Tauri, React, Typescript, Ollama, SQLite

### GAIA AI (Central AI Coordination System) – Local, Privacy-First AI Assistant (In Development)

- Designing an AI orchestration layer coordinating multiple productivity modules within *Momentum*.
- Integrated Ollama for private LLM inference and building support for semantic search using embeddings stored in a Qdrant Vector Database, encrypted user context, and cross-module communication.
  - Tech Stack: React, Typescript, Tauri, Ollama, Qdrant

### Baptismal Records Manager (Desktop App) – Offline CRUD system for Parish Record Management

- Developed multi-user desktop app with SQLite backend and secure login.
- Features include record management, certificate generation, and backups.
  - Tech Stack: Tauri, React, Typescript, SQLite, Prisma.

## SKILLS

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**Languages:** Javascript, Typescript, Python, SQL, Java, C#, Rust

**Frameworks/Libraries:** React, Express, .NET, Tailwind CSS

**Tools & Platforms:** Node.js, Supabase, SQL Server, MySQL, Git, Docker, Postman, Tauri, Ollama

**AI/ML:** OpenAI API, Llama 3, Huggingface Transformers