

Mariano Luiz B. King

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[LinkedIn](#) | [Portfolio](#) | [GitHub](#)

SUMMARY

Software Developer skilled in full-stack development, AI integration, and user-focused design. Certified with the [IBM Full Stack Software Developer Certificate](#). Strong background in building reliable, user-focused applications.

EXPERIENCE

BlastAsia, Inc. - [View Certificate](#)

Pasig City, PH

Frontend Developer Intern

June 2024 - July 2024

- Built and shipped front-end features across **3+ enterprise-grade** projects, translating design specs into high-performance interfaces using **HTML**, **CSS**, and modern web practices.
- Collaborated with developers to implement modular UI components, enabling smooth integration and on-time feature delivery.
- Diagnosed and resolved layout, responsiveness, and performance issues during development cycles.

Google Developer Student Clubs PLM

Manila, PH

Web Development Lead

Aug 2025 - Present

- Oversaw multiple web projects end-to-end, from planning to deployment
- Guided developers and enforced basic code quality and deployment practices

Zuitt Coding Bootcamp - [View Certificate](#)

Quezon City, PH

Frontend Developer Trainee

Oct 2022 - April 2023

- Completed a 6-month, 100+ hour front-end development training during senior high school **work immersion**, mastering **HTML**, **CSS**, **Bootstrap**, **JavaScript**, and **Git**.
- Built **10+ web interfaces** following clean, maintainable, and scalable code standards.

EDUCATION

University of the City of Manila (Pamantasan ng Lungsod ng Maynila)

Manila, PH

Bachelor of Science in Computer Science | Dean's Lister (4x)

Ongoing

FEATURED PROJECT

[PLM Chatbot and Campus Guide](#)

University AI Web App

- Developed a campus web app that helps students navigate university facilities through an interactive map and access real-time answers about rules, policies, and student services via an AI chatbot.
- Implemented a **Retrieval-Augmented Generation (RAG)** pipeline combining vector store **embedding**, indexing, query analysis, and hypothetical question generation to improve accuracy and reduce hallucinations.
- Built using **LangGraph**, Gemini AI, ChromaDB, Flask, Python, and React js.

[CHUNGUS Language](#)

Programming Language

- Built a **Python-based compiler**; implemented a complete lexer using a finite-state machine.
- Developed a **268+ case**, CSV-driven **pytest** suite and CI with **GitHub Actions**; built a **IDE-style GUI** for interacting with the compiler
- Currently implementing syntax analysis, semantic analysis, and code generation.

[SignifAI](#)

AI Rhythm Sign Language Game

- Developed an interactive rhythm game teaching American Sign Language (ASL) through real-time gesture recognition and music-based gameplay, garnering **80+ unique players** featured on the leaderboard.
- Implemented real-time detection of 26 ASL hand signs using a combination of a **custom-trained model** and MediaPipe's pre-trained hand tracking system.
- Built using *React*, *TypeScript*, *Tailwind CSS*, *TensorFlow*, *MediaPipe CV*, *Redux*, *React Router*, *Firebase*, *Vite*.

[Fiddle](#)

Mobile AI Rhythm Sign Language Game

- Developed a cross-platform mobile rhythm game that teaches sign language through interactive, music-based gameplay.
- Achieved **2nd Runner-Up** at the **14th IT Skills Olympics** Android Game category held at the **University of Makati**.
- Built using *React Native*, *TypeScript*, *Python*, *TensorFlow*, *MediaPipe* CV.

[TALLY](#)

Mobile Educational App

- Designed and shipped a gamified classroom economy app to teach budgeting, saving, and taxes via task-reward mechanics.
- Won “**Best Working App**” at **GDSC PLM’s 2025 InnOlympics Hackathon** (\$200 prize); built with *FlutterFlow* and *Supabase*.

[PLM Data Form](#)

Data Management Web System

- Developed a full-stack CRUD app with **RESTful APIs** and dynamic data visualizations for student records.
- Implemented backend logic and chart rendering using *Node.js*, *Express.js*, *MySQL*, and *Chart.js*.
- Designed and implemented both user-facing forms and an admin dashboard using *React*, *Bootstrap*, *SCSS*, and *Figma*.

[TransacGalore](#)

Point-of-Sale and Inventory System

- Developed a desktop application in **Java** with **MySQL** integration for real-time sales tracking and inventory control.

[BrainyPals](#)

Mobile Educational Game

- Developed a **React Native** quiz app using *Expo* and **TypeScript** that teaches kids Numbers, Letters, and Vocabulary through randomized questions, audio-visual feedback, animations, and Challenge Mode for an engaging learning experience.
- Designed specifically for mobile with a focus on user experience, accessibility, and interactive learning.

SKILLS

Languages: TypeScript, JavaScript, Python, Java

Frontend: React.js, Next.js, TailwindCSS, Bootstrap

Backend: Node.js, Express.js, Flask

AI / Data: TensorFlow, LangGraph, MediaPipe, Pandas

Databases: MySQL, PostgreSQL, Firebase

Tools: Git, Docker, Linux, Postman, Figma, n8n, AWS

Certificates: [IBM FullStack Software Developer Certificate](#), [AWS Cloud Essentials Certificate](#), [DataCamp Intermediate Python](#), [\[and more...\]](#)