

# Mariano Luiz B. King

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[LinkedIn](#) | Portfolio: [marianoluiz.dev](https://marianoluiz.dev) | [GitHub](#)

## SUMMARY

Full-stack developer building modern web and AI applications, with hands-on experience in machine learning and RAG systems. Earned the [IBM Full Stack Software Developer Professional Certificate](#).

## EXPERIENCE

<b>BlastAsia, Inc.</b> - <a href="#">View Certificate</a>	<b>Pasig City, PH</b>
<i>Frontend Developer Intern</i>	<i>June 2024 - July 2024</i>
<ul style="list-style-type: none"><li>Built and shipped front-end features across <b>3 enterprise-grade</b> projects, translating design specs into high-performance interfaces using <b>HTML, CSS, JavaScript</b> and modern web practices.</li><li>Collaborated with developers to implement modular UI components, enabling smooth integration and on-time feature delivery.</li><li>Diagnosed and resolved layout, responsiveness, and performance issues during development cycles.</li></ul>	
<b>Google Developer Groups on Campus PLM</b>	<b>Manila, PH</b>
<i>Web Development Lead</i>	<i>Aug 2025 - Present</i>
<ul style="list-style-type: none"><li>Developed and deployed multiple web projects end-to-end, writing code, implementing features, and ensuring high-quality standards.</li><li>Mentored developers, enforced best practices, and improved workflows for maintainable and scalable projects.</li></ul>	
<b>Zuitt Coding Bootcamp</b> - <a href="#">View Certificate</a>	<b>Quezon City, PH</b>
<i>Frontend Developer Trainee</i>	<i>Oct 2022 - April 2023</i>
<ul style="list-style-type: none"><li>Completed a 6-month, 100+ hour front-end development training during senior high school <b>work immersion</b>, mastering <b>HTML, CSS, Bootstrap, JavaScript, and Git</b>.</li><li>Built <b>10+ web interfaces</b> following clean, maintainable, and scalable code standards.</li></ul>	

## EDUCATION

<b>University of the City of Manila</b> ( <i>Pamantasan ng Lungsod ng Maynila</i> )	<b>Manila, PH</b>
<i>Bachelor of Science in Computer Science</i>   Dean's Lister (5x)	<i>Ongoing</i>

## FEATURED PROJECT

<b>Iskolar.app</b>   <i>College Entrance Exam Platform</i>	
Live: <a href="https://iskolar.app">https://iskolar.app</a>	
<ul style="list-style-type: none"><li>Built and deployed a <b>production-ready</b> full-stack study platform serving <b>daily active users</b>.</li><li>Implemented secure <b>authentication</b> using NextAuth with Google <b>OAuth, JWT</b>-based sessions, and Gmail <b>SMTP</b> for verification flows.</li><li>Designed <b>spaced repetition</b> scheduling (SM-2 inspired) and scalable Firestore data architecture for flashcard tracking.</li><li>Stack: Next.js, TypeScript, Firebase Firestore (NoSQL), NextAuth, Material UI.</li></ul>	
<b>RAG Chatbot and Campus Guide</b>   <i>University AI Web App</i>	
GitHub: <a href="https://github.com/marianoluiz/plm-assistant">https://github.com/marianoluiz/plm-assistant</a>	
<ul style="list-style-type: none"><li>Developed a campus web app providing navigation and real-time answers via an AI chatbot.</li><li>Implemented a <b>Retrieval-Augmented Generation (RAG)</b> pipeline combining vector store <b>embedding</b>, indexing, query analysis, and hypothetical question generation to improve accuracy and reduce hallucinations.</li><li>Built using <b>LangGraph</b>, Gemini AI, ChromaDB, Flask, Python, and React.js.</li></ul>	
<b>CHUNGUS Language</b>   <i>Programming Language</i>	
GitHub: <a href="https://github.com/marianoluiz/chungus-lang">https://github.com/marianoluiz/chungus-lang</a>	
<ul style="list-style-type: none"><li>Built a Python-based <b>compiler from scratch</b> with a finite-state-machine lexer and syntax analyzer.</li><li>Developed <b>2000+ automated test cases</b> with pytest and <b>continuous integration</b> via GitHub Actions.</li><li>Implementing semantic analysis and code generation as the next stages of the compiler.</li></ul>	
<b>SignifAI</b>   <i>AI Rhythm Sign Language Game</i>	

Live: <https://signifai.vercel.app> | GitHub: <https://github.com/marianoluiz/SignifAI>

- Built a real-time web-based rhythm game for learning ASL using hand gesture recognition reaching **80+ users**.
- Implemented live detection of 26 ASL hand signs using a **custom-trained hand gesture classification model** integrated with **MediaPipe**.
- Stack: React, TypeScript, TensorFlow.js, MediaPipe, Firebase Firestore.

### **Fiddle** | *Mobile AI Rhythm Sign Language Game*

GitHub: <https://github.com/marianoluiz/fiddle>

- Developed a **mobile adaptation** of SignifAI, implementing real-time ASL hand gesture recognition using MediaPipe and TensorFlow.
- Won **2nd Runner-Up, Android Game Category, 14th IT Skills Olympics** (University of Makati).

### **TALLY** | *Mobile Educational App*

DevPost: <https://devpost.com/software/tally-teach-and-learn-life-yields>

- Won “**Best Working App**” at **GDSC PLM’s 2025 InnOlympics Hackathon (\$200 prize)**; built with *FlutterFlow* and *Supabase*.

## **SKILLS**

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**Languages:** TypeScript, JavaScript, Python, Java

**Frontend:** React.js, Next.js, Bootstrap, TailwindCSS, Material-UI, HTML, CSS, SCSS

**Backend:** Node.js, Express.js, Flask, Django

**AI / Data:** LangGraph, Pandas, NumPy, TensorFlow, MediaPipe

**Databases:** MySQL, PostgreSQL, Firebase, Supabase

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

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