

LEI CHRISTIAN MABOLOC

Mobile Developer | Flutter & Dart

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PROFESSIONAL SUMMARY

Computer Engineering student and mobile developer specializing in Flutter and Dart, with hands-on experience building production Android apps — including on-device ML detection, real-time Firebase-backed systems, and native Android audio integrations. Proven track record leading full-stack teams and shipping end-to-end mobile solutions.

TECHNICAL SKILLS

Mobile & Backend: Flutter, Dart, Android (native AudioEffect APIs via Platform Channels), Material Design, Firebase (Realtime DB, Auth, Cloud Messaging), MySQL, REST APIs

ML & Languages: YOLOv8, TensorFlow Lite (on-device inference), Python, Java, C++, JavaScript, C#

Tools & Soft Skills: VS Code, Kiro IDE, Git, Azure DevOps, Figma, Bubble.io; team leadership, problem-solving, cross-functional communication

MOBILE PROJECTS

MediAlert — Campus Emergency Response App (Full-Stack) *Flutter · Dart · Firebase*

- Designed and built a Flutter app for academic settings enabling students to trigger instant alerts to school nurses via a single-tap emergency button, cutting response time in scenarios where the clinic is physically distant from the incident.
- Implemented role-based dual interfaces (student and nurse accounts) with real-time push notifications, alert confirmation workflow, and resolution tracking powered by Firebase Realtime Database and Cloud Messaging.

Helmiscan — Soil-Transmitted Helminth Detection App (Thesis) *Flutter · Dart · YOLOv8 · TFLite*

- Built on-device ML detection app using Flutter and a YOLOv8 TensorFlow Lite model; designed architecture and integrated camera-based real-time inference. One-year thesis project completed August 2025.

Enhanced EQ — System-Wide Android Audio Equalizer (Live on Google Play) *Flutter · Dart · Android Native*

- Shipped and maintain a published Play Store app (4.5★, 1k+ downloads in 1st 2 weeks with no ad promotions) featuring 10/15/31-band graphic + parametric EQ, 8D spatial audio, 95+ headphone correction profiles, and a community preset sharing system.
- Built custom DSP frequency engine and integrated Android native AudioEffect APIs (DynamicsProcessing, BassBoost, Virtualizer, LoudnessEnhancer) via Platform Channels for system-wide audio processing with no root required.

FairFare — Global Travel Fare Calculator (In Progress) *Flutter · Dart · REST APIs*

- Scalable fare calculator integrating Google Maps API and live currency exchange APIs for worldwide travel cost estimation.

EXPERIENCE

Web Developer Intern (Full-Stack) — Jairosoft Inc. 2026

- Selected for the core ELMS team after rapid onboarding; engineered complex Bubble.io workflows to automate educational administrative and tracking modules.
- Built dynamic data structures and relational databases for large-scale learning content; collaborated cross-functionally using Azure DevOps and Figma.

Computer Shop Attendant / Operator — Nestrapper Computer Shop 2015 – 2025

- Assembled custom PCs, installed operating systems and drivers, and provided technical support and customer service.

EDUCATION

B.S. Computer Engineering, University of Mindanao CGPA: 3.27

Relevant Coursework: Java OOP, Data Structures & Algorithms, Software Design, Responsive Web Design

Certifications: Responsive Web Design (freeCodeCamp), Angular & ASP.NET Core REST API (Udemy)

LEADERSHIP & ACTIVITIES

- **Team Lead:** Led 3 university full-stack development teams; projects graded 98–100% (Hotel Management, Music Player, POS System).
- **Scholarships:** DOST Full Scholarship; Ateneo de Davao University Senior High School Full Scholarship.
- **Community:** Volunteer Technical Team, PyCon Davao 2025; Attendee, Build with AI 2025 (GDG Davao).
- **Reference:** Engr. Samantha Babael, Bubble.io Developer, Jairosoft Inc. — sbabaeil@jairosoft.com