John Carlo Z. Cacao

Mobile Developer · Computer Science Student

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PROFESSIONAL SUMMARY

Results-oriented Mobile Developer and Computer Science undergraduate with hands-on experience shipping production-grade applications across Android and iOS, alongside backend service engineering in fintech (PawnHero). Proficient in modern architectures (MVVM, MVI), on-device machine learning with Google ML Kit, native home and lock-screen widgets, and reactive concurrency with Kotlin Coroutines and Dart. Champion and multi-time finalist in collegiate hackathons with a proven ability to solve complex mobile systems challenges.

WORK EXPERIENCE

Backend Developer Intern · PawnHero — June 2026 — Present

- Developing backend services, core financial transaction pipelines, and RESTful API integrations in a high-compliance fintech environment.
- Engineering and optimizing relational database operations with SQL to support operational dashboard tooling and high-concurrency requests.
- Collaborating in cross-functional agile sprints, peer code reviews, and system reliability testing to ensure low-latency performance.

Service Crew · McDonald's — April 2025 — May 2026

- Delivered high-volume customer service and operational efficiency during peak shifts, demonstrating exceptional teamwork and adaptability.
- Managed concurrent tasks under time pressure, sharpening rigor, prioritization, and communication while pursuing full-time CS studies.

FEATURED PROJECTS

Glot — On-Device Real-Time Screen Translator — Android

Kotlin, Jetpack Compose, Google ML Kit (OCR & Translation), MediaProjection API, Coroutines, StateFlow

- Architected real-time on-device screen translation utility leveraging MediaProjection for low-latency capture and ML Kit for offline multi-script OCR.
- Built custom text tracking using IoU matching and hysteresis-based stabilization, eliminating overlay flicker within tuned pixel deadzones.
- Implemented a "Forbidden Zone" geometry cache preventing OCR feedback loops over active tooltip bounding boxes.
- Engineered a 65% downscaling and bitmap pooling pipeline, cutting memory footprint and latency by over 50%.

Paddi — Sticky Notes & Desktop Widget App — Google Play · App Store

Kotlin Multiplatform (KMP), Compose Multiplatform, SwiftUI & WidgetKit, Android AppWidget

- Published production cross-platform utility with persistent desktop and lock-screen sticky note widgets, sharing UI and business logic across Android and iOS via Compose Multiplatform.
- Engineered native iOS WidgetKit extensions (Swift, App Intents) and Android AppWidgets for instant bidirectional note state updates and offline-first local persistence.

Lapi — Productivity & Task Planning Suite — Google Play · App Store

Kotlin, Jetpack Compose, Local LLM (llama.cpp), Room DB, Coroutines & Flow

- Architected an offline-first task manager and habit tracker on Google Play and App Store with reactive state management using Room SQLite, Coroutines, and Flow.
- Integrated on-device local LLM (llama.cpp) via native C++ JNI with ARM NEON acceleration for zero-latency, private schedule generation and natural language task parsing.

TECHNICAL SKILLS

Languages: Kotlin, Dart, Elixir, Python, SQL, Java

Mobile & Frontend: Android SDK, Jetpack Compose (Material 3), Flutter, Android & iOS Widgets, XML

Architecture & Concurrency: MVVM, MVI, Clean Architecture, Kotlin Coroutines, StateFlow, Retrofit, Room, Dagger-Hilt

Backend & Tools: Phoenix Framework, PostgreSQL, Firebase, Git/GitHub, Android Studio, Xcode, Postman

HONORS & AWARDS

Champion — DCI Hackathon 2026 (Tidal Forge)

Champion — DCI Hackathon 2025 (The Howl and the Brave)

Finalist — DCI Hackathon 2026 (Digital Wizards)

Finalist — CICS Hackathon 2026

EDUCATION & CERTIFICATIONS

City College of Calamba
Bachelor of Science in Computer Science (Undergraduate) • Calamba, Laguna

Computer System Servicing (NC II)
Redlink Institute of Science and Technology • 2024