

Gabriel Villagran

Software Engineer

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Summary

Software Engineer with experience working across iOS applications, backend integrations, API-driven systems, and real-time infrastructure platforms. Part of the stack I've worked with includes Swift, UIKit, SwiftUI, PHP/Laravel, REST APIs, GraphQL, SQL, Docker, and software architecture patterns.

I've contributed to e-commerce systems at Walmart Global Tech, backend and AI-assisted integration workflows at Cincinnati AI, and industrial monitoring platforms at Transom supporting 300,000+ real-time field signals.

My work has focused on production debugging, API integration, reliability, cross-functional delivery, and mentoring other developers.

Technical Skills

Languages: Swift, PHP, Python, JavaScript, TypeScript, Java, C, C++, C#, Visual Basic

Mobile Development: iOS, UIKit, SwiftUI, Combine, Core Data, MapKit, GCD, Async/Await, URLSession, Codable, Auto Layout, Keychain Services, VoiceOver, Accessibility, Firebase, Kotlin, Jetpack Compose

Backend & APIs: Laravel, Spring, Spring Boot, REST APIs, GraphQL, OAuth2, JSON, Service Layers, API Client Abstraction, RAG Integrations, Node.js, Docker-based Microservices

Frontend: React, Blade, Tailwind CSS, HTML, CSS

Databases: SQL Server, PostgreSQL, MariaDB

Architecture & Patterns: MVVM, MVVM-C, MVC, Clean Architecture, SOLID, Delegation, Protocol-Oriented Programming, Dependency Injection, Repository Pattern

Testing & Quality: Unit Testing, XCTest, API Validation, Postman, Proxyman, cURL, Debugging, Logging, SonarQube, SwiftLint, Quantum Metric, Crashlytics, OpenObserve

DevOps & Developer Tools: Docker, GitHub Actions, CI/CD, Git, GitHub, GitLab, Jira, Looper

IoT & Industrial Systems: ICONICS Suite, SCADA, BMS, EMCS, WinCC, Ignition, BACnet, OPC, Siemens PLC

Experience

Software Engineer – Backend Integrations

Nov 2023 – Present

Cincinnati AI

Atlanta, Georgia

- Develop PHP/Laravel integration services that connect client applications with Docker-based microservices.
- Design RESTful APIs for workspace, channel, and messaging workflows consumed by web, React, and iOS clients.
- Implement RAG-based workflows using PHP and external APIs to support document retrieval and AI-assisted product features.
- Define reusable service layers, API clients, and environment-based configuration to standardize backend integrations.
- Build client-facing functionality across React and iOS using Swift, UIKit, SwiftUI, Combine, Firebase, Core Data, and MapKit.
- Improve application stability through unit testing, structured code reviews, logging, production debugging, and data-handling optimizations.
- Built a GitHub Actions CI/CD pipeline that automated build, test, and deployment workflows, reducing manual release steps and standardizing delivery across environments.
- Mentor junior developers on API integration, Laravel, Swift, Combine, Core Data, Git workflows, and software architecture.
- Created technical documentation and training materials that reduced junior developer onboarding time by approximately 30–50%.

Senior iOS Developer – Cart & Checkout Team

Aug 2025 – Aug 2026

Walmart Global Tech

Sunnyvale, California

- Built and maintained API-driven iOS functionality across cart and checkout flows for Sam's Club customers in the U.S. market.
- Improved reliability across critical purchase flows by resolving production issues involving date handling, user facing errors, analytics payloads, image rendering, fulfillment logic, and address validation.
- Extended GraphQL fragments and mobile data models to support new product capabilities, coordinating pull requests and cross-team validation for controlled production rollouts.

- Implemented CCM feature flags to isolate Sam's Club U.S. specific functionality without affecting other Walmart tenants.
- Contributed to the beta rollout of a new fulfillment experience across the U.S by validating and fixing fulfillment labels, slot behavior, fee presentation, cart summary calculations, and compatibility with existing purchase flows.
- Improved Cart Summary and Thank You Page behavior through implementation, debugging, validation, and release-readiness work across cart and checkout flows.
- Improved VoiceOver and ADA-aligned accessibility across headers, loading states, carousels, grouped content, filters, snackbars, bottom sheets, image links, and focus restoration.
- Enhanced PDP and PLP product flows by resolving quantity behavior, replacement controls, bundled-item handling, multi-selection feedback, WCP component behavior, and Add to Cart issues.
- Resolved UI consistency issues involving Auto Layout, reusable components, dynamic content, banners, placeholders, spacing, and alignment across cart and checkout experiences.
- Applied MVVM-C, SOLID principles, delegation, protocol-oriented programming, reusable component patterns, and feature flags while collaborating with product, design, QA, backend, and mobile engineering teams throughout implementation and release validation.

Software / IoT Engineer

Jun 2021 – Oct 2023

Transom

San Luis Potosi, Mexico

- Designed and deployed SCADA solutions for SFO and LaGuardia airport infrastructure using ICONICS, BMS, and EMCS systems.
- Built BACnet- and OPC-connected real-time dashboards and data models supporting 300,000+ field signals.
- Integrated SQL Server with SCADA platforms for reporting, alarm processing, operational monitoring, and historical analysis.
- Implemented alarm-management and predictive-maintenance workflows to improve infrastructure visibility and operational monitoring.
- Refactored legacy C and Visual Basic systems to improve maintainability and support SCADA migration initiatives.
- Developed industrial SCADA integrations using Siemens PLC signals and diagnosed communication, data-mapping, and system-integration issues.

Education

Computer Science

Universidad Autonoma de San Luis Potosi

Languages

Spanish: Native

English: Full Professional Proficiency