

EARL JOHN T. RAFAEL

Full-Stack Developer | Mobile App Development | Software Engineer | Cloud & AI/ML Engineer
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SUMMARY

Highly motivated Software Engineer, Full Stack Developer, and Cloud & AI/ML Developer and recent BS in Information Technology graduate (2026). I specialize in architecting end-to-end applications, combining high-performance Backend systems with production-ready AI/ML models. With a technical foundation in Next.js, FastAPI, and React Native, I bridge the gap between sophisticated data logic and user-centric design. I am proficient in Computer Vision (YOLO/Mask R-CNN), secure API development, and cloud-ready architectures, focused on delivering intelligent, scalable digital solutions.

TECHNICAL SKILLS

Font-End Development & Design: React, React Native, Flutter, Figma, WordPress

Back-End Development: Next.js, Node.js, FastAPI, Flask, PostgreSQL, Redis, GraphQL, Prisma

Cloud & Infrastructure: Google Cloud, Docker, IAM, Microsoft Azure, Render

AI/ML Engineering: PyTorch, TensorFlow, Roboflow, Kaggle, PGVector, RAG

CI/CD & Automation Tools: Git, GitHub Actions, Supabase Edge Functions, Firebase & Appwrite Functions, Vercel

Testing: Jest, Playwright, React Testing Library

Programming Languages: JavaScript & TypeScript, Python, Java, C++, C#, Dart, SQL

Soft Skills: Attention to Detail, Adaptability, Team Collaboration, Communication, Critical Thinker, Fast Paced

Interests: Cloud Computing & Technologies, AI/ML Development and Integration, Backend Development

EDUCATION

Bachelor of Science in Information Technology, West Visayas State University

2022 - 2026

PROJECTS & INTERNSHIP EXPERIENCE

INNO Digital Marketing Services

January 2026 - April 2026

Software Engineer (Internship) — Next.js, React Native, Supabase, WordPress, Hostinger, Trello, ClickUp

BebeCare (Software Engineer Intern)

- Collaborated with the development team to build a nanny booking platform featuring real-time location tracking and secure, seamless transactions.
- Built an MVP mobile application and administrative dashboard to facilitate early-stage user testing and proactively mitigate technical risks.
- Expanded technical capabilities into full-stack mobile development, successfully navigating the complexities of React Native, API integrations (Google Maps, PayMongo), and network/domain management.

Event Management Web System (Software Engineer Intern)

- Engineered a QR-based event check-in system with role-based access control (Admin, Organizer, Guest), enabling seamless event management workflows that support bulk guest imports, real-time ticket dispatch, and concurrent scanner operations without requiring technical expertise.
- Implemented production-grade security architecture including JWT-signed ticket tokens, transaction-safe PostgreSQL verification with row locking, and replay/double-scan protection to ensure data integrity and prevent unauthorized ticket duplication across multiple concurrent scanner devices.

- Optimized event operations by engineering an intuitive QR scanning interface with sub-2-second verification speeds, drastically reducing venue check-in friction while utilizing Supabase for real-time attendance tracking and dashboard updates.

NPS Survey & Analytics System

April 2026 – June 2026

Software Engineer — Next.js, TypeScript, Mailchimp, Smart Messaging Suite, Supabase

- Architected a comprehensive NPS survey distribution and analytics platform serving 15+ branch locations, featuring an intuitive dashboard and multi-channel distribution (email & SMS) that enables non-technical staff to collect, analyze, and act on customer feedback without requiring deep technical knowledge.
- Implemented enterprise-grade security with role-based access control (RBAC), row-level security (RLS) policies, passkey authentication for sensitive operations, and comprehensive audit logging to protect customer data and enforce data privacy across all user roles and operations.
- Optimized feedback workflows through automated survey distribution, real-time analytics dashboards with multi-dimensional filtering, streamlined report generation with PDF export capabilities, and client data bulk import/export—reducing manual processes and accelerating decision-making across the organization.

InsureVis - AI-Powered Vehicle Damage Assessment

2024 - 2025

Software Engineer — Flutter & Dart, Node.js & Express, Flask, PyTorch, Supabase, Docker, Google Cloud Run

- Architected a full-stack AI-powered insurance claims platform serving mobile claimants, repair companies, and insurance carriers, streamlining the traditionally manual damage assessment and verification process into a seamless, end-to-end workflow with real-time notifications and automated report generation.
- Implemented comprehensive security architecture with role-based access control (RBAC) across three distinct user types (claimant, repair company, insurance company), enforcing document-level permissions, audit trail logging, and Supabase row-level security (RLS) policies to protect sensitive claim data and ensure regulatory compliance.
- Optimized insurance claim processing workflows by integrating AI-powered damage detection (75%+ accuracy), reducing manual inspection time by automating severity classification and damage-to-part matching, while enabling offline-first mobile functionality and real-time document verification, significantly accelerating claim resolution cycles.