

JAN MIKO A. GUEVARRA

Full-Stack Developer & AI Integration Specialist

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PROFESSIONAL SUMMARY

Full-stack developer specializing in AI-powered applications for web and Android platforms. Over 3 years of experience delivering 40+ projects across e-commerce, government, healthcare, and education domains. Proficient in Flutter, Next.js 15, React 19, TypeScript, and advanced AI integration using Google Gemini, OpenAI, and MediaPipe. Proven track record building real-world systems for actual clients including a frozen food distributor in Manila and municipal government offices across the Philippines.

CORE COMPETENCIES

AI & Machine Learning:

- Google Gemini 1.5 Pro, 2.0 Flash, and 2.5 Flash Lite for conversational AI, vision, and code generation
- OpenAI GPT API for text intelligence and automation
- MediaPipe for real-time hand and gesture recognition and sign language translation
- PyTorch and scikit-learn for deep learning model training (MCI detection, flood assessment)
- TensorFlow Lite and ONNX Runtime for on-device and cross-platform ML inference
- EfficientNet-B0 CNN architecture for image classification tasks
- Gradient Boosting on tabular medical data for early Alzheimer's detection
- ARIMA and SARIMA for time-series disease forecasting in public health systems

Cross-Platform Development:

- Flutter for Android development — 20+ deployed applications
- Next.js 15 with App Router, Server Actions, and Turbopack — 12+ web projects
- React 19 with hooks, Context API, and TanStack Query for server-state management
- Tailwind CSS v4 for responsive and utility-first UI design

Technical Expertise:

- Languages: TypeScript, Dart, Python, Java, Kotlin, HTML, CSS
- Backend & BaaS: Supabase (18 projects), Firebase (12 projects), FastAPI, Node.js, Express.js
- Databases: PostgreSQL, Firestore, SQLite, Room, Hive
- State Management: Riverpod, Provider, GetX, BLoC/Cubit (Flutter), TanStack Query, Context API (React)
- Dev Tools: Git, GitHub (43+ repositories), Vercel, VS Code, Android Studio, Jupyter Notebooks
- Specialized: BLE Indoor Positioning, Three.js, Framer Motion, Chart.js, Recharts, PDF Generation, QR Codes

PROFESSIONAL EXPERIENCE

Freelance Full-Stack Developer | Self-Employed

June 2022 – Present

Hybrid System Architecture (Web + Mobile):

- InCloud System: E-commerce and inventory hybrid system for J.A's Food Trading (Manila) with real-time multi-tier pricing, AI analytics, role-based access control, and Excel import/export

Government & Enterprise Web Applications:

- HealthCardGo: Public health management system for City Health Office of Panabo City featuring SARIMA disease forecasting across 41+ barangays

- JobSync: AI job-matching platform for Municipality of Asuncion using Gemini 1.5 Pro ensemble ranking with skills assessment and employer dashboard

AI, Machine Learning & Mobile Applications:

- MCI Detection System: Medical AI for early Alzheimer's detection achieving 80.77% accuracy using Gradient Boosting on hippocampal MRI features (NIfTI, ONNX)
- UAV Flood Assessment System: Research capstone achieving 78.4% road passability accuracy for Philippine disaster response using EfficientNet-B0 and PyTorch
- A'ezzy Grammar Correction: AI-powered grammar correction and text improvement web tool using Gemini 2.5 Flash Lite for CASAP Grade 11 research project
- Fyllens - Plant Health Detection: AI app for plant nutrient deficiency and disease detection using TensorFlow Lite for Rice, Corn, Okra, and Cucumber with AI assistant and offline support
- TalkToHand: Real-time sign language translation for the deaf and hearing-impaired using MediaPipe gesture recognition (Java, Kotlin, Android)
- SnakeBuddy: AI snake identification using Google Gemini 1.5 Pro with real-time camera capture and offline species catalog for the Philippines
- Scan My Soil: Agricultural AI solution using Gemini Vision for soil composition analysis and farming recommendations
- SeaSafe: Marine safety app with AI hazard detection and weather analysis for seafarers
- Better Bites: AI dietary choice analyzer scanning ingredient labels with ML Kit OCR, providing health recommendations based on personal profiles
- Yummify Recipe Finder: Gemini AI and Spoonacular API integration for personalized recipe discovery and generation
- EnviroSpeak: Accessibility app with Gemini AI voice processing for environmental description with text-to-speech

Utility & Productivity Applications:

- Econaga: Waste management app with location tracking and driver coordination for collection requests (Flutter, Firebase, Google Maps, GetX)
- Eatease: Streamlined food delivery app with simplified interface for browsing restaurants and ordering meals
- QR Code Attendance System: QR-based attendance tracking system for efficient check-in and check-out management

Key Achievements:

- Delivered 40+ applications across web and Android platforms serving real clients
- Built hybrid system combining Next.js web dashboard with Flutter Android app
- Integrated cutting-edge AI technologies achieving measurable performance and accuracy improvements
- Implemented real-time features including voice processing, gesture recognition, and location tracking
- Created scalable solutions for government, healthcare, education, and private sector clients

EDUCATION

Bachelor of Science in Computer Science

Cor Jesu College, Inc. | Digos City, Philippines | Expected Graduation: 2026

CERTIFICATIONS & TRAINING

- Programiz Java Programming Course | 2023
- Programiz Android App Development Course | 2023

TECHNICAL APPROACH

End-to-End Solution Delivery:

From requirements analysis to deployment, managing complete project lifecycles with focus on scalability, maintainability, and real-world impact.

AI Integration Philosophy:

Implementing artificial intelligence not as a novelty, but as a practical solution to enhance user experience and solve specific business and government challenges.

Cross-Platform Excellence:

Building high-performance Android applications using Flutter alongside modern web applications with Next.js, delivering consistent user experiences across both platforms.

User-Centric Design:

Prioritizing accessibility, intuitive interfaces, and responsive design to ensure applications serve diverse user needs effectively across all platforms.

PORTFOLIO

Complete Project Showcase: pinocchiooo.dev

GitHub Repositories (43+ public repos): github.com/Pinocchio

Live demos and documentation available for all major projects with video demonstrations and technical specifications.

Seeking opportunities to architect enterprise-scale hybrid systems and contribute to impactful projects that leverage AI, cross-platform development, and modern full-stack engineering.