

Jesie P. Gapol

Flutter Developer | UI/UX Designer | Graphic Artist

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PROFESSIONAL SUMMARY

Computer Science graduate specializing in Flutter cross-platform development and Firebase backend integration, with robust hands-on experience building real-time systems, QR-based applications, and encrypted cloud solutions using AES encryption. Skilled in designing responsive, user-friendly interfaces and scalable mobile applications from concept through deployment. Seeking opportunities in mobile development, software engineering, or UI-focused roles where I can contribute strong technical and design skills to real-world products.

PROJECTS DEVELOPED

Cloud-Based Vehicle Monitoring System - Desktop & Mobile (Thesis Project)

Lead Developer

- Served as lead/main developer on a thesis team building a dual-platform system (Windows admin app + Android scanner app) for JRMSU-KC CDRRMSU, replacing manual vehicle pass verification with encrypted QR-based digital tracking.
- Engineered a custom modified AES-128 encryption scheme (reduced rounds, key-derived Dynamic ShiftRows, LFSR-inspired MixColumns) to secure QR payloads while maintaining real-time scan performance on mobile hardware.
- Built real-time violation reporting, admin dashboards, and PDF/CSV export tooling powered by Cloud Firestore and Syncfusion.

JRMSU CCS QR-Based Visitor Log System (OJT / Practicum Project)

Developer

- Independently designed and built a QR-based visitor registration and logging system for the JRMSU CCS Dean's Office during OJT, streamlining check-in workflows for institutional use.
- Integrated Firebase Authentication and Firestore for secure, centralized visitor record management.
- Designed a responsive, intuitive interface that improved check-in speed and usability for staff and visitors.

Peso Path - Personal Budgeting App

Developer

- Developed an offline-first personal budgeting and expense tracking app with savings goals and a calculated safe daily spending limit.
- Implemented local data persistence with SQLite for reliable, fully offline financial tracking.
- Released a working version with a public Github Repository and installable APK for user accessibility.

Gapz Graphics Portfolio Website

Designer/Developer

- Designed and developed a personal portfolio website to effectively showcase branding and graphic design projects.
- Crafted fully responsive layouts optimized for excellent viewing experiences across various devices.

EDUCATION

Jose Rizal Memorial State University – Katipunan Campus

Katipunan Z.N.

Bachelor of Science in Computer Science

2022 – 2026

- Academic Excellence Award – Top 1
- Excellence in Systems Analysis and Programming Award
- Outstanding Creative Program Designer Award
- Outstanding Graphic Designer Award
- Best Research Presenter Award
- Outstanding Practicum Award
- 1st Runner up - Municipality Logo Design Contest 2025
- 1st Runner up - Intercollegiate Students’ Festival 2024 On-The-Spot Poster Making Contest
- Champion - Intercollegiate Students’ Festival 2023 On-The-Spot Poster Making Contest

Cogon National High School

Dipolog City, Z.N.

TVL (CSS) - Technical-Vocational-Livelihood (Computer System Servicing)

2020 - 2022

TECHNICAL SKILLS

- Frontend:** Flutter, Dart, Material Design, Responsive UI
- Backend & Cloud:** Firebase, Firestore, Firebase Authentication, Cloud Functions
- Tools:** Git, GitHub, VS Code, Figma, Adobe Photoshop, Adobe Illustrator, MS Office
- Other:** REST APIs, QR Systems, AES Encryption, SQL

CERTIFICATIONS & AFFILIATIONS

- BSCS Practicum In-Service Seminar: A World of Works Bootcamp **April 10, 2025**
- OpenxAI Vibe Coding Session **November 18, 2025**
- Data Privacy Awareness Seminar **November 17, 2025**