

John Filhmar Ola

FULL-STACK DEVELOPER

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SUMMARY

Full-stack developer who builds and ships production systems end to end — **mobile, web, backend, and the infrastructure they run on**. Sole developer of a distributed, end-to-end-encrypted real-time messaging platform spanning the mobile client, backend services, CI/CD pipeline and production servers. **Freelancing since 2023**, delivering live systems for real clients across healthcare, disaster response, education and automotive services. Comfortable owning a system from first commit through to live operation, incident diagnosis and iteration — and a fast learner across new languages and stacks.

WORK EXPERIENCE

Lead IT (promoted from Developer) • **YouCode Technologies Corporation** 2025 – 2026 • Philippines

- **Promoted from Developer to Lead IT within the first year**, owning multiple commercial production systems end to end — architecture, full-stack development, automated testing, CI/CD and on-premise infrastructure.
- Sole developer of the company's flagship real-time platform, built across mobile, backend services, deployment pipeline and production servers, and adopted as the shared notification backbone for the other products.
- Owned CI/CD across the product suite: automated build, test, security scanning, artifact signing and deployment, including self-hosted runner infrastructure.
- Ran on-premise infrastructure operations — provisioning, container orchestration, monitoring stack deployment, and production incident diagnosis.
- Established performance and capacity baselines through load testing and benchmarking, producing formal technical findings used in vendor and stakeholder decisions.

Frontend / Web Developer Intern • **Ynnovision Enterprise Solutions** Feb 2025 – May 2025 • Cavite

- 486-hour development internship building and improving web-application features; delivered assigned tasks to deadline with consistent code quality and contributed improvements to system stability and usability.

FREELANCING EXPERIENCE — client systems in production, 2023 – present

Kalusugapp — Municipal Health Records System 2023

Client: Victoria Municipal Health Office · Developer

- Digitised patient health records and appointment management for a municipal health office, replacing paper workflows with searchable records, role-based access and real-time updates.
- Full-stack React + Node/Express + MySQL with Socket.IO real-time updates, HTTPS, encrypted handling of sensitive personal data (aligned with the PH Data Privacy Act), and Excel report exports.

Flood Notification System — IoT Early-Warning Device 2024

github.com/JohnFilhmar/FloodSystem

- Sensor-based early-warning system that alerts nearby residents to rising flood water through audible sirens, multi-colour warning lights and automated SMS dispatch.
- Five escalating alert tiers driven by an ultrasonic water-level sensor tracking both level and rate of rise; built on Arduino/C++ with a SIM800L GSM module broadcasting SMS to multiple resident numbers and an audio module for siren playback.

GeneSys — Game-Based Learning Platform for General Biology 2025

github.com/JohnFilhmar/genesys

- Web-based, game-based learning platform for senior-high General Biology: teachers build quizzes and assessments and host private rooms that students join with a 6-character code — no account required — with live monitoring and exportable analytics.
- Full-stack Next.js/React + Node/Express + MongoDB + Redis, with an offline-tolerant student client (session recovery, retry queue), six question types and JWT auth; containerised with Docker and deployed behind nginx.

JMS E-Talyer — Multi-Branch Automotive Service & Inventory Management 2024 – present

jms-e-talyer.shop · github.com/JohnFilhmar/talyer-e-inventory · sole developer, owner & operator

- Multi-branch inventory and service-management system for automotive/motorparts businesses: per-branch stock, sales and service orders, and the stock ledger that ties them together, with real-time monitoring and daily transaction reports.

- Offline-capable PWA — orders created offline replay on reconnect with server-authoritative conflict resolution and barcode scanning — plus a companion Expo mobile client; Next.js + Express/MongoDB/Redis with 400+ backend tests.
- Self-provisioned VPS I operate end to end, with a full CI/CD and security pipeline (tests, static analysis/CodeQL, dependency and container scanning, secret scanning) and hardened, manual-gated container deploys.

SIDE PROJECTS — personal builds in active development

PeraPlano — Local-First Personal Finance App (Android)

internal & closed testing

github.com/JohnFilhmar/pera-plano

- Privacy-first budgeting app that turns bank and e-wallet transaction notifications into ledger entries on-device — no account linking, no bank passwords, and nothing leaves the phone.
- Expo / React Native with encrypted on-device storage (SQLCipher), a local-first ledger model, and daily, monthly and annual budgets with threshold alerts.

Kognita — AI-Verified Adaptive Quiz Generator

unreleased · ongoing development

github.com/JohnFilhmar/kognita

- Adaptive, self-assessed quiz platform — from everyday quizzes to board-exam review — that generates questions and uses a model-agnostic AI pipeline to *verify* content rather than overwrite trusted material.
- React Native (Expo) app with a Django REST backend, polyglot persistence (PostgreSQL/pgvector, Redis), offline-first on-device storage, and per-session partial-credit scoring.

YOUCODE PROJECTS — systems built at YouCode Technologies

Proprietary products; described at a product level, with internal implementation and stack details omitted.

- **Usapp** — a private, end-to-end-encrypted mobile messaging platform for the Philippine market (iOS & Android). Sole developer and architect across the app, backend and production operations; also serves as the push-notification backbone for the company's other products.
- **Civic Super App Platform** — a white-label, multi-tenant "super app" that lets each local government unit run its own branded citizen-services app and admin consoles from one shared platform: e-government services, incident reporting, one-tap emergency SOS with live dispatch, and targeted alerts. Live across multiple cities.
- **HRIS** — a per-client human-resource information system spanning the full employee lifecycle (onboarding, time & attendance, leave, payroll, performance and compliance), configurable per client without code changes.
- **YouGuard Master Bridge Server** — an on-site gateway connecting access-control and surveillance hardware to a cloud platform; powers automated daily attendance capture and real-time security monitoring, and keeps working through cloud outages. Sole developer.
- **Resilient-Learn** — an offline-first learning-management platform for large, distributed organisations: on-device computer-based testing, an offline course player, and verifiable digital micro-credentials, built so a dropped connection never loses a learner's work.
- **YouFlow** — an AI-integrated, self-hostable Kanban workspace for teams working alongside AI assistants as permission-scoped members, with AI-assisted story-point estimation under a supervisor confirmation gate and automated end-of-day reporting. Sole developer.

TECHNICAL SKILLS

Languages	TypeScript · JavaScript · Python · PHP · C · C++ · C# · Java · Bash
Frontend & Mobile	React · Next.js · React Native (Expo) · TailwindCSS · PWA / offline-first · responsive UI
Backend	Node.js · NestJS · Express · REST · WebSockets · gRPC · RabbitMQ · microservices
Data & Storage	PostgreSQL · MySQL · MongoDB · Redis · S3-compatible (MinIO) · schema design
DevOps & Infra	Docker · Docker Compose · GitHub Actions · self-hosted runners · nginx · Linux / VPS · Prometheus · Grafana
Security & QA	SAST/DAST/SCA · secret & container scanning · image signing · Jest · automated CI pipelines
Embedded / IoT	Arduino · embedded C/C++ · sensor integration · GSM / SMS
Practice	Full-stack ownership · microservice design · technical documentation · code review · Agile delivery

Spoken languages: English (professional working) · Filipino / Tagalog (native)