

Yahia Elramal

FULL STACK SOFTWARE ENGINEER

Profile

Independent contractor and full-stack/mobile engineer building HIPAA-compliant healthcare and mobility apps. Led a backend re-architecture (Laravel/SQL Node.js/MongoDB/Bun) and a major mobile performance overhaul; shipped EVV, scheduling, billing, and multilingual caregiver experiences. Sole mobile owner for a Switzerland traffic app with live mapping, customizable alerts, offline-first design, and open-source CarPlay support.

Employment History

Full Stack Software Engineer, G-Tech Innovation, INC, Philadelphia

FEB 2024 – PRESENT

- Led a backend re-architecture: migrated from Laravel/SQL to Node.js (later Bun) with Express and MongoDB; introduced schema design, indexes, aggregation pipelines, and robust validation/middleware layers.
- Built secure REST APIs for auth, scheduling, documentation, billing, reporting, audit trails, and a granular permission system enabling custom roles and fine-grained access control.
- Implemented rate limiting per IP and per user, comprehensive logging/monitoring, backups, and HIPAA-aligned safeguards including encryption in transit/at rest, PHI minimization, access logs, and secret management.
- Integrated Firebase Auth/FCM/Analytics, Sentry; Stripe (subscriptions, invoices, webhook reconciliation); Twilio (SMS/WhatsApp). Delivered EVV integrations with SanData and HHAeXchange exports.
- Drove a mobile performance overhaul that significantly improved navigation responsiveness and backend data loading efficiency, producing a noticeably faster caregiver experience.
- Delivered an offline-first architecture: device persistence after initial load, queued write operations with conflict-aware release on connectivity restore.
- Languages: Supported 15 languages across caregiver mobile and web experiences.

Frontend Software Engineer, G-Tech Innovation, INC, Philadelphia

MAY 2022 – FEB 2024

- Sole mobile owner for the caregiver iOS/Android app (Expo, React Native, JavaScript/TypeScript); shipped via EAS to App Store and Play.
- Delivered core home health workflows: EVV with GPS/geofencing, scheduling and shift reminders, timesheets, care plans and assessments, documentation, reporting dashboards, and offline-first data entry with queued background sync.
- Implemented push notifications (FCM/APNs), biometric login, and UX improvements that made navigation and data loading feel much faster and more intuitive.
- Improved reliability with Sentry and Firebase Crashlytics; reduced sync failures and stabilized crash rates through targeted fixes and better error handling.
- Coordinated agency beta programs prior to production rollouts; collaborated closely with separate backend and QA teams.

Details

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Skills

Frontend/mobile: Expo, React, React Native, TypeScript, iOS, Android, Web, Vite; EAS build/submit.

Backend: Node.js, Bun, Express, MongoDB/NoSQL, REST.

Platforms/integrations: Firebase Auth/FCM/Analytics, Sentry, Stripe, Twilio; SanData, HHAeXchange.

Practices: HIPAA compliance, rate limiting, logging/monitoring, backups, offline-first sync, middleware-based authz, beta production release process.

React Native, Expo, JavaScript, Google Maps SDK, Mapbox/MapLibre, Context API, EAS, Sentry, FCM/APNs/Expo Notifications, WebSockets.

Languages: JavaScript, TypeScript

Frontend/mobile: React, React Native, Expo, Vite, iOS, Android, Web

Backend: Node.js, Bun, Express, MongoDB/NoSQL, REST

Cloud/ops: Firebase (Auth, FCM, Analytics), Sentry, Firebase Crashlytics

Integrations: Stripe, Twilio, SanData, HHAeXchange

Mobile Software Engineer, Confidential Mobility Client, Ticino

APR 2022 – AUG 2024

- Sole mobile engineer for a live traffic intelligence app serving the Italian-speaking region of Switzerland: incidents/radars, accidents by category/severity, road disturbances, and official press releases.
- Built a high-performance live map with clustering, filtering, and severity-based markers; migrated from Google Maps SDK to Mapbox/MapLibre for advanced theming and performance.
- Delivered user-configurable push alerts with near-immediate delivery after provider ingestion; supported WebSocket-driven live updates and notifications via FCM/APNs (later Expo Notifications).
- Implemented CarPlay support and contributed upstream to enable CarPlay with Expo, unlocking a capability previously unavailable to the community.
- Designed a privacy-preserving experience: location remained on-device; app usable offline after initial load with graceful handling until data refresh.
- Built a secure, location-bound promotions system for local partners (gas stations, auto services, groceries, restaurants): in-app QR codes valid for short windows and redeemable only on-site via a merchant companion app; antifraud checks and redemption validation.
- Implemented multilingual UX (Italian and English), robust error monitoring (Sentry), and automated delivery (EAS build/submit). Advised backend and QA on ingestion cadence, alerting logic, and API ergonomics.

Education

Mechatronik, B.Eng, Technische Hochschule Deggendorf, Deggendorf

OCT 2024 – PRESENT

GCE A-Level High School Diploma, British Modern School, Badr, Egypt

NOV 2021 – AUG 2023

References

Gregory Estevez from G-Tech Innovation, INC

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Practices: HIPAA compliance, offline-first, rate limiting, logging/monitoring, access control/permissions, beta/staged rollouts, EAS build/submit

Mapping and realtime: Mapbox/MapLibre, Google Maps SDK, WebSockets, geofencing, EVV

Languages

German

English

Arabic
