

LEVL — BioSync - Automated Wearable Telemetry Sync for Longevity Platform

Company Description:

LEVL is an AI-native longevity startup building novel nutraceutical formulations and personalized protocols to help people live longer, healthier lives. LEVL's platform translates cutting-edge lifespan science into daily routines covering Sleep Architecture, HRV & Autonomic Reset, Metabolic Flexibility, and Cardiorespiratory Fitness.

Preferred Team Size: 3-4 Computer Science Students

Location: Remote (Direct access & weekly pairing with LEVL engineering leadership)

Project Objective

Build the LEVL Wearable Integration Gateway — an automated data sync and verification engine that connects consumer wearable devices (Apple HealthKit, Oura Ring, Whoop, Fitbit, Dexcom CGM) directly into LEVL's daily protocol timeline.

Currently, users manually check off daily health modalities (such as cold immersion, Zone 2 cardio, or sleep stacks). This project eliminates manual logging friction by ingesting background wearable streams, standardizing biometric data, and automatically verifying protocol completion in real time.

Core Deliverables

1. Multi-Provider Authentication & Ingestion Gateway

Build secure authentication flows and background data ingestion pipelines for major wearable platforms (Apple HealthKit, Oura, Whoop, Fitbit). Support token management, webhook listeners, and background sync routines.

2. Biometric Data Normalization Engine

Design a standardized data schema to aggregate and clean multi-device biometric metrics (such as HRV, sleep stages, continuous glucose, and heart rate zones) into unified, queryable time-series records.

3. Automated Protocol Verification System

Develop logic that evaluates incoming biometric streams against scheduled LEVL protocols to automatically log completed tasks (e.g., verifying an 8-hour sleep target or auto-detecting a Zone 2 workout session).

4. Integration Dashboard & Visualizations

Build user-facing interfaces to connect, manage, and monitor hardware integrations, along with real-time biometric cards and historical telemetry trends within the main application timeline.

Stretch Goals

- **Live Glucose Spike Interventions:** Intercept continuous glucose monitor (CGM) telemetry streams to detect post-meal glucose spikes and trigger real-time micro-interventions.
 - **Recovery-Based Dynamic Protocol Adjustments:** Automatically adjust daily protocol difficulty based on morning recovery, HRV, and sleep architecture metrics.
 - **Offline Sync Queue:** Support offline background caching so wearable logs recorded without cell service sync automatically once connectivity returns.
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Student Benefits & Learning ROI

- **Real-World Health Tech Stack:** Gain direct experience working with modern device APIs (Apple HealthKit, Oura, Whoop) and processing real-world time-series data.
 - **Modern Web Frameworks & Cloud Services:** Build with Next.js 16, React 19, TypeScript, Supabase (Postgres), and webhooks.
 - **High Product Impact:** Solve one of the primary friction points in consumer health software by automating background data verification.
 - **Mentorship & Career Perks:** Direct engineering collaboration with LEVL leadership, potential post-session opportunities, and complimentary LEVL LIFESPAN+ products.
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Contact Information

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