

LEVL ChronoEngine: Modular Pace of Aging & Longevity Engine

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

Develop LEVL ChronoEngine — a modular intelligence layer that productizes open-source biological age models (such as PhenoAge and KDM BioAge) into an interactive consumer application.

Rather than inventing a new biological clock from scratch, this project builds a flexible system that accepts incomplete user health data — blood biomarkers, wearable metrics, simple physical tests (like balance or pull-ups), and qualitative feedback — and outputs an interpretable Pace of Aging score.

Core Deliverables

1. Flexible Multi-Modal Input Layer

Build web interfaces and APIs to capture partial or complete user health metrics, including bloodwork, physical fitness tests, and qualitative reports, with graceful handling of missing inputs.

2. Modular Aging Model Execution Pipeline

Design a pluggable engine architecture that standardizes raw health metrics and executes open-source biological age algorithms using clean data schemas.

3. Interactive Scenario Simulator & Explainability UI

Create a visual "What-If" simulator allowing users to adjust key health inputs (such as glucose, blood pressure, or sleep quality) to visualize their impact on estimated biological age and pace of aging.

4. AI & Protocol Optimization API Hooks

Expose structured APIs that feed Pace of Aging scores and primary aging drivers directly into LEVL's personalized protocol recommendation system and AI Coach.

Stretch Goals

- **Next Best Measurement Recommender:** Build an algorithm suggesting which single biomarker or test would most increase score accuracy based on user effort and cost.
 - **Longitudinal Progress Tracking:** Create time-series visualization tools tracking a user's pace of aging trends over time against active protocol routines.
 - **Multi-Model Comparison Dashboard:** Provide side-by-side outputs comparing how different open-source aging models score the same health dataset.
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Student Benefits & Learning ROI

- **Modern AI & Web Stack:** Gain hands-on experience with Next.js 16, React 19, TypeScript, Supabase (Postgres), and AI LLM integrations.
 - **Applied Health-Tech & Longevity Research:** Work at the intersection of biological age science, health data modeling, and consumer product engineering.
 - **Production Product Impact:** Ship features directly into a live consumer application.
 - **Mentorship & Perks:** Direct collaboration with LEVL engineering leadership, potential post-session opportunities, and complimentary LEVL LIFESPAN+ products.
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Contact Information

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