

LEDGER ENGINEER, OMNIA

Full-time · US (Hybrid)

At Laocoön Health, we are building foundational infrastructure that makes healthcare economics more intelligent, explainable, and humane. This role is for engineers who care deeply about correctness, elegance through simplicity, and building durable, future-proofed systems - modern-day monuments that stand the test of time.

THE ROLE

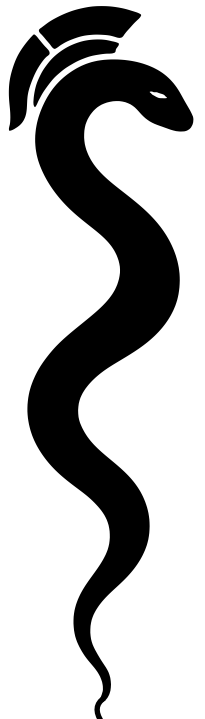
You'll design and build the dual-sided ledger at the core of Omnia: the record that both a payer and a provider can trust completely, because neither can quietly alter it. This is foundational infrastructure with real cryptographic and architectural stakes, and it deserves someone who has actually built distributed ledger systems before, not someone learning on the job.

WHAT YOU'LL DO

- Design and build the bilateral ledger architecture underlying Omnia
- Implement cryptographic integrity guarantees: signing, hashing, and tamper-evidence that both counterparties can independently verify
- Make real architectural calls on what level of decentralization various system components actually need, and defend that call with rigor
- Build watertight reconciliation between ledger state and real-world settlement outcomes
- Partner closely with the payments engineering team on the boundary between Covenant and Omnia

YOU ARE

- Someone with real production experience building blockchain or distributed ledger systems, not just conceptual familiarity
- Rigorous about cryptographic guarantees and where they actually break down
- Able to reason clearly about when a system needs decentralized trust and when it doesn't, and to say so even if the answer is inconvenient
- Comfortable owning a mostly greenfield, foundational system with real consequences if it's wrong



MINIMUM QUALIFICATIONS

- Production experience building blockchain or distributed ledger systems
- Strong grounding in cryptographic primitives: signatures, hashing, Merkle structures
- Experience with consensus mechanisms and a clear-eyed understanding of their tradeoffs
- Solid systems engineering fundamentals: concurrency, failure modes, data integrity

PREFERRED QUALIFICATIONS

- Experience with permissioned or private ledger architectures, as opposed to public chains
- Experience in fintech or healthcare payments infrastructure
- Experience building ledger systems for a small number of known counterparties, rather than public, many-party trust models
- Comfort operating in a lean startup where the org chart is still being written