



# Hugo Ander Kivi

Senior Software Engineer

Tallinn, Estonia · Remote · Available for B2B contract

- [founder@substratesystems.io](mailto:founder@substratesystems.io)
- [substratesystems.io/work](https://substratesystems.io/work)
- [linkedin.com/in/hugo-ander-kivi](https://linkedin.com/in/hugo-ander-kivi)

## PROFILE

I shipped an LLM governance framework with a controlled three-condition benchmark on Opus 4.7, showing skill-triggered contract loading lifts task quality from a 7/10 baseline to 9–9.5/10. Now in production at Hub88, an Elixir iGaming aggregator. Project lead on five integrations. Independently shipped Q (AI knowledge platform, ~500 testers) and Endstate (Windows setup and restore tool).

## CORE STACK

Elixir TypeScript Python PHP React Node.js Next.js PostgreSQL  
pgvector Redis Elasticsearch Docker IaC FastAPI Langfuse AppSignal

## PRODUCTS — SUBSTRATE SYSTEMS

### LLM Governance — *Contract-based AI development framework*

Business invariants encoded in versioned contract docs, connected via skills that load and reference them at runtime to enforce behavior across AI-assisted development. RFC authored, now in production use at Hub88. [substratesystems.io/blog/governance-as-compression](https://substratesystems.io/blog/governance-as-compression)

### Q — *Multi-tenant AI knowledge infrastructure platform*

Domain-routed RAG platform with semantic search and AI Q&A. Around 500 testers. Python/FastAPI backend, Next.js frontend, PostgreSQL with pgvector. Self-hosted on K3s/Hetzner; Terraform plus Ansible provisioning, automated backups. [useq.ai](https://useq.ai)

### Endstate — *Windows setup and restore tool*

Windows machine setup and restore tool. Cross-platform Go engine, open-source CLI plus open-source desktop GUI. Hosted Backup tier ships with a structural cryptographic commitment: the server cannot decrypt user data. macOS and Linux support via Nix is coming. [substratesystems.io](https://substratesystems.io) · [github.com/Artexis10/endstate](https://github.com/Artexis10/endstate)

## EXPERIENCE

### Software Engineer

Mar 2024 – Present

[Yolo Group — Hub88 Integration Team](#) · Tallinn

Project lead on five integrations on a high-traffic B2B platform. Built several integration adapters from scratch and contributed to dozens across the platform. Senior specialist on core integration system. Led AI governance initiative now in production (RFC + PR demos). Fault-tolerant third-party integrations, platform architecture.

### Software Developer

Apr 2022 – Feb 2024

[Bedford Row Capital](#) · Tallinn

Proprietary platform for structured debt issuance and securitisation — transaction mechanics, servicing, document handling. Primary developer alongside team lead. Built a loan-notes servicing application end-to-end in PHP — frontend, backend, API.

## ADDITIONAL

**Languages** English (native), Estonian (native), Spanish (A1–A2), Italian (basic)

**Podcast** Co-host & technical operator — Together, Unprocessed (~8–12M monthly Facebook views, 104K followers; 11K Instagram); metabolism, biochemistry, longevity, performance

**Contracting** B2B via Substrate Systems OÜ (reg. 17394552)