**Service Objective:**

To lead the full-stack architecture, technical design, and delivery execution of the Inabit platform, leveraging deep domain experience in AI-integrated systems, modern DevOps, and scalable cloud-native development.

**Service Scope:**

* End-to-end application architecture and engineering strategy
* AI integration planning and applied ML delivery
* Sprint planning and backlog grooming (in coordination with Product team)
* Scalable infrastructure and DevOps enablement
* Cross-functional engineering leadership and collaboration

**Service Description:**

1. System Design & Full-Stack Engineering
   1. Lead the design and implementation of a modern full-stack architecture using Go, Python, TypeScript, React, PostgreSQL.
   2. Translate product goals into scalable, testable, and extensible engineering components.
2. AI-Driven Capability Development
   1. Architect and integrate AI features, leveraging prior experience in LLM applications, multi-agent frameworks, and data pipelines.
   2. Apply practical experience with model deployment (e.g., Ollama, vLLM) and physiological signal processing to align with Inabit’s wellness-tech focus.
3. Infrastructure & DevOps Enablement
   1. Deploy containerised services with Kubernetes and set up CI/CD automation via GitHub Actions or equivalent.
   2. Establish infrastructure-as-code (e.g., Terraform) and system observability using Prometheus, Grafana.
4. Team Interaction & Collaboration
   1. Collaborate with the Product team to ensure delivery alignment while maintaining engineering autonomy.
   2. Provide architectural guidance and mentorship to internal and external development team members.