



AI-Driven Application Modernization Blueprint

Enterprises must modernize legacy applications to stay competitive. CloudIQ delivers this transformation through a structured, three-phase approach that converts monolithic systems into efficient, future-ready assets.

Our **AI-powered orchestration** provides deep system understanding, strategic migration planning, and rigorous testing—enabling businesses to navigate technical complexity while unlocking performance gains.

AI-Driven Code Analysis

The foundation of any successful modernization is a comprehensive analysis of the existing codebase. Our framework automates and enhances this critical phase.

- **Deep Code Intelligence** - RAG system processes entire codebase, intelligently chunking and embedding code in vector databases for advanced querying.
- **Enhanced RAG Retrieval** - Rich metadata integration provides deeper context and precise information retrieval.
- **Automated Documentation** - Specialized AI sub-agents generate complete documentation, module summaries, and detailed technical specifications—eliminating manual effort and creating blueprints for spec-based development.

Strategic Migration Plan

With a complete understanding of the legacy system, we craft a detailed and strategic migration plan that prioritizes business value and minimizes disruption.

- **Defining the Migration Approach:** Collaborative modernization strategy including target application/infrastructure stacks and SRE considerations using strangler fig pattern for proven incremental migration.
- **Module Prioritization:** We analyze modules to identify core business functions and high-impact areas for immediate value delivery and maximized ROI.
- **Legacy and New System Coexistence:** The Strangler Fig pattern allows the new, modernized components and the legacy system to coexist seamlessly. API gateway/facade routes traffic between new microservices and legacy monolith, ensuring zero downtime & invisible transitions.

Rigorous Evaluation & Testing

Ensuring functional continuity is paramount. Our framework integrates comprehensive evaluations and multi-faceted testing strategies throughout the modernization lifecycle.

- **Continuous Evaluation** - Integrated evaluations from project start, monitoring agentic workflow performance and data layer standards through continuous feedback loops.
- **Automated Testing** - Auto-generated test scenarios, cases, and data. Enhanced functional and performance testing with automatic unit and functional test creation.
- **Validation Strategies** - Granular correctness validation through unit test cases. Traffic mirroring enables real-world testing with live production traffic without user impact.

AI-Driven Results

This three-phased methodology delivers measurable outcomes by turning modernization into a controlled, value-driven process.

- **Enhanced Efficiency** - Automation-driven productivity gains.
- **Proactive Risk Mitigation** - Upfront complexity resolution.
- **Future-Ready Applications** - Scalable, cost-effective solutions.

Proven Success: Accelerated modernization for multiple clients using Generative AI for comprehensive codebase analysis, detailed requirements gathering, and precise migration/testing strategies.

Founded in May 2015
HQ: Seattle, WA
Off-Shore: Chennai, INDIA

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