AI For App Modernization

vFunction is the industry’s first AI powered Application Modernization platform. Accelerate modernization with intelligent automation eliminating months of manual work and risk. Create a continuous modernization factory for applications no matter where they are in the journey to cloud native. Continuous modernization for continuous innovation in the cloud.

Transform complex monolithic Java & .NET* applications into mini/microservices

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Modernizing Legacy is Challenging

Current methods of modernization are slow, cost prohibitive and bring a lot of risk to app owners and the business. Projects often fail, they do not meet budget and timeline, or may simply not work. Analysis paralysis is a common state these situation.

Re-hosting is only a viable solution for a subset of apps. It offers little to no change in technical debt reduction, and does not take advantage of the true value of cloud native architectures that bring agility/elasticity and engineering velocity.

This results in:

- Compounded technical debt
- Long release cycles, stalled innovation efforts
- Long ramp up time for new developers
- Downtime, risk & security vulnerabilities
- Limited scalability & no elasticity
- Inability to take advantage of modern cloud services
- Increased cost
Modernization Hub

**Full transformation platform of monoliths into microservices/miniservices:**
Analyze, design, blueprint with vFunction Studio and generate microservices on the vFunction Modernization Hub platform. Automatically create services out of the original code. Let the vFunction platform take you through refactoring, re-architecting and rewriting services. Deploy anywhere.

**Learn (AI-based)**
Observe business flows and track application behavior to identify true logical domains using data science and machine learning.

**Analyze**
Analyze the complexity and the modernization ROI of all your apps so you can prioritize & plan.

**Re-Architect**
Design services using the interactive UI design studio. Refine service boundaries, automatically refactor classes, assign code to common libraries, conduct impact analysis of design decisions based on architect’s input.

**Automate**
Automate the extraction of mini/microservices code and creation of restful APIs based on the vFunction studio.

**Optimize**
Eliminate dead code and deploy efficient, compact microservices.

**Scale**
Build and manage a repeatable and continuous modernization factory.

Assessment Hub

**Assessment for decision makers to prioritize apps for modernization:**
Purpose-built modernization assessment for decision makers. It uses AI to analyze and condense data into 3 high-level indicators that allow you to assess, prioritize and drive immediate action on your modernization projects and on-board apps into the vFunction platform.

- Generates complexity, risk and technical debt indicators
- Automatically calculates the innovation to tech debt cost ratio and total cost of ownership (TCO) factor improvement by modernization
- Class specific refactor recommendations
- Exportable report to build the business case for modernization

89%

89% Technical Debt

- $0.11 Innovation
- $0.89 Debt
- $0.154 High Debt Classes
USE CASES

Formulate a Modernization Strategy and Plan
Assess and analyze your entire application estate, prioritize applications for modernization based on refactor complexity, business impact, and innovation speed.

Transform Several “Megalithic Apps”
Tackle well identified complex applications that have 5M+ lines of code that are mid-journey and slow to progress. Businesses usually lack the tools and skills to efficiently transform these into microservices. These are very risky projects without automation.

Beyond Lift and Shift
Lift and shift or monolith containerization may be a good first step in the cloud journey, but may result in disappointment. No real development agility, release cycles are still too long, stalled innovation and high cost. Refactor to microservices to start taking advantage of complete cloud native benefits.

About vFunction
vFunction is the first and only AI-driven platform for developers and architects that intelligently and automatically transforms complex monolithic Java/.net applications into microservices, restoring engineering velocity and optimizing the benefits of the cloud. Designed to eliminate the time, risk and cost constraints of manually modernizing business applications, vFunction delivers a scalable, repeatable factory model purpose-built for cloud native modernization. With vFunction, leading companies around the world are accelerating the journey to cloud-native architecture and gaining a competitive edge. vFunction is headquartered in Palo Alto, CA, with offices in Israel. To learn more, visit vFunction.com.