Architectural Observability Platform

vFunction is the industry's first AI-driven, **Architectural Observability** Platform to manage technical debt, enable application modularization, and support continuous application modernization.

Continuously observe the architecture of Java & .NET applications, identify their domains and detect architectural drift. Find, fix, manage, and prevent architectural technical debt thereby modularizing your applications.

Observe	**Manage**	**Transform**
Your Architecture	Your Technical Debt	Your Applications into Microservices

Technical Debt: An Organization's Greatest Unaudited Liability

"By 2026, 80% of technical debt will be architectural technical debt." - Gartner*

"To help their organizations to successfully measure and monitor technical debt, software engineering leaders should:

Prevent time-consuming architectural rework by introducing tools to analyze architectural technical debt and monitor the amount of debt in their software architecture." *

Without measuring and using the right tools to manage and remediate architectural technical debt, it will become your organization's largest unaudited liability.

This creates significant compliance and off-balance sheet risks and exposure, hidden from the C-suite until it's too late. If migrating to the cloud, just lifting and shifting your architectural technical debt will prevent you from realizing the cloud's true benefits.

In summary, like financial debt, technical debt must be surfaced, tracked, and managed.
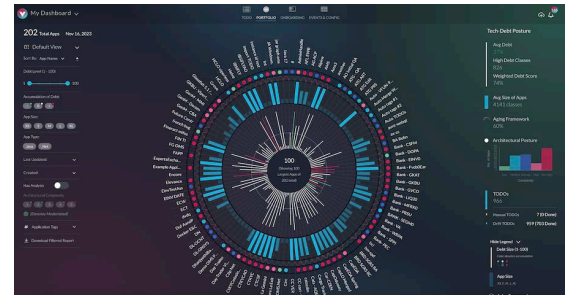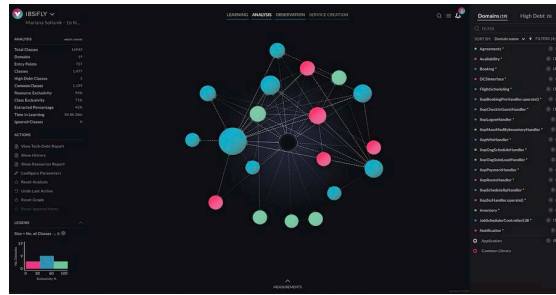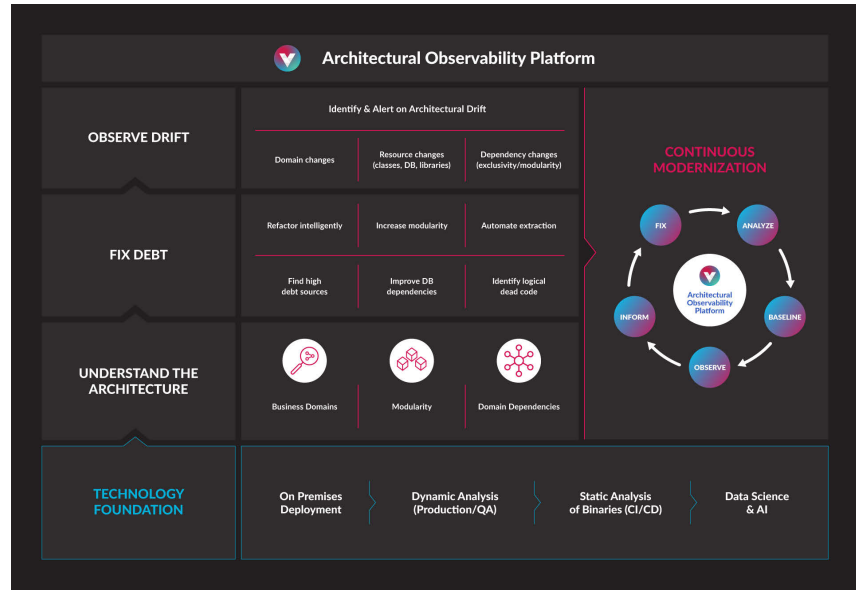
Architectural Observability
Find, Fix, and Manage Technical Debt

The vFunction Architectural Observability (AO) Platform analyzes an application statically and dynamically, and uses AI to understand its architecture, observe drift, find and fix architectural technical debt, and enable its modularization thereby facilitating extraction of domains into microservices, using its Code Copy feature.

Architectural observability is foundational to any modernization use case, including modernization associated with pre- and post-migration to the cloud, and enables organizations to directly improve:

- Feature release cycles
- Business velocity
- Speed of innovation

- Developer productivity
- Scalability
- Cloud benefits & cost

Architectural Observability Platform

OBSERVE DRIFT	Identify & Alert on Architectural Drift			**CONTINUOUS MODERNIZATION**
	Domain changes	Resource changes (classes, DB, libraries)	Dependency changes (exclusivity/modularity)	
FIX DEBT	Refactor intelligently	Increase modularity	Automate extraction	
	Find high debt sources	Improve DB dependencies	Identify logical dead code	
UNDERSTAND THE ARCHITECTURE	Business Domains	Modularity	Domain Dependencies	
TECHNOLOGY FOUNDATION	On Premises Deployment	Dynamic Analysis (Production/QA)	Static Analysis of Binaries (CI/CD)	Data Science & AI

vFunction

About vFunction

vFunction is the first AI-driven Architectural Observability Platform designed to help software architects manage technical debt, modularize applications, and enable iterative application modernization, from basic refactoring to full rewriting and microservices extraction. vFunction is headquartered in Palo Alto, CA, with offices in Israel, Austin, TX, and London, UK.
To learn more, visit vFunction.com.

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