

Automated Code Remediation

Code Remediation: We Fix the Code So You Don't Have To

AUTOMATED REMEDIATION
SAAS SOLUTION



Automated Code Remediation

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Automated Code Remediation

Imagine if you could alleviate the effort of remediating today's complex, composed apps—freeing developers to be the creators they are.

Our SaaS offering delivers unrivaled software transformation at scale, automating security vulnerability patches, dependency updates, and code clean-up across your organization.

Automated Code Remediation

The reality of modern applications is that they are composed of large and diverse codebases and ecosystems—a supply chain of custom, third-party, and open source software that is continually growing in complexity.

Dependencies are changing frequently and evolve at their own pace. Security vulnerabilities can be introduced at any time by anyone. This technical debt backlog of compliance, security, and dependency issues can overwhelm engineering organizations.

Not modernizing your software regularly leads to critical flaws, performance issues, and security risk.

The key to fixing your technical debt dilemma across your organization is continuous software modernization with our automated remediation SaaS offering. Automatically make safe, sweeping changes that substantially improve quality, security, and cost of code.

Software upkeep that would normally take many months of manual effort can be automated and completed with a pull request (PR) in minutes—a significant time and cost savings. Developers can stay on top of ever-evolving dependencies and be more productive delivering business value.

End result—energized developers and a thriving business.

BENEFITS



Remove software dependency risk

Continuously visualize and upgrade cascading software dependencies without breaking the code. Fix source code along with dependencies. Always have an accurate read on your software bill of materials (SBOMs).



Automatically fix security vulnerabilities everywhere

Understand your codebase so when a new security vulnerability is discovered, you can quickly visualize the risk and apply automated fixes across your repositories. Close off attack vectors back at the source code and continually improve your security posture.



Unlock enterprise productivity

Work in new ways to automate the mundane and empower developers to innovate. Development teams can more quickly resolve a backlog of alerts with the help of automation that fixes the code. Gain back time for that deep, problem-solving work.

CAPABILITIES



Full fidelity of code knowledge

- Operates via a type-attributed, format-preserving Lossless Semantic Tree (a technology leap from the common Abstract Syntax Tree) that enables 100% accurate, style preserving code search and transformation with no false positives
- Offers a broad ecosystem of essential search and transformation recipes via the OpenRewrite open source project that enable repeatable, accurate results
- Curates and recommends recipes for open source software (OSS) dependency insights, upgrades, and CVE patching



Code fixes integrated with your repository

- Executes automated transformation recipes to fix issues, followed by developers reviewing and committing or creating PRs to source code in GitHub, GitLab or Bitbucket
- Marks code fixes as co-authored by our SaaS for traceability
- Provides change campaigns to analyze and fix code en-masse
- Operates alongside your regular software development and delivery processes



Code analysis and insights for each repository

- Offers recommendation service that pre-analyzes each repository and surfaces insights and applicable fixes
- Provides code and library-level software composition analysis (SCA)
- Enables developers to understand their API consumers, as well as what third-party APIs they are using, which databases they interact with, etc.
- Automatically surfaces available recipes for fixing common vulnerability and exposures (CVEs) to each applicable repository



Transformation recipe management

- Enables quick assembly of complex recipes for common code fixes (change method, arguments, package) with a Recipe Builder
- Manages OSS and custom recipes as packages uploaded to the service
- Automatically adds new recipes to the Recipe Catalog as they are uploaded or created through the Recipe Builder
- Distributes recipes across organizations
- Provides a framework for building automation recipes for custom searches and transformations



Seamless integration with developer workflows

- Provides a build plugin integration for local usage and to publish LSTs out of the build independently of the CI systems used (LSTs are available in SaaS within minutes.)
- Integrates with your IDE for searches enabling you to find who's using your API or how to use a specific API in seconds
- Aligns a users' source code access to service control manager (SCM) permissions—no other configuration is necessary
- Includes API for custom integrations

Find out how to fix your technical debt using automated code remediation.

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#coderemediation

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