CENGN

RESHIFT INNOVATION HIGHLIGHT

COMPANY OVERVIEW

Reshift is a lightweight, developer-first code security tool that detects vulnerabilities and provides code remediation. Reshift is fully integrated with existing developer tools and software workflows, beginning in the IDE, all the way to the code review and CI phases.

LOCATION: OTTAWA, ON

TECHNOLOGY

Security

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SECURITY TESTING AND REMEDIATION BOTTLENECKS IN THE DEVELOPMENT PROCESS

Over the past 10 years, the rate at which development teams deploy has become 100x faster, yet security remediation has only become 2x faster. Security testing and remediation is often the bottleneck for many development teams due to the lack of quality security tools, lack of processes in place, and the knowledge gap of secure coding for developers. Handling security issues later in the development lifecycle can cost up to 30x more than mitigating the risks earlier on and often requires a lot of development time that could be spent on releasing new features. Reshift resolves this with a developer security tool that automates finding security vulnerabilities in their own custom code throughout development, while also providing them with remediation assistance so security doesn't get in their way.

FINDING SECURITY VULNERABILITIES IN YOUR CUSTOM CODE

Reshift helps development teams implement security earlier in the development lifecycle with three main focuses; speed, accuracy, and developer UX. Reshift's proprietary scanner has a speed of about 10ms/line of code. The scanner also leverages DataLog technology which provides higher accuracy in the findings than other competitors, meaning less noise and false positives. Finally, the user interface and experience are designed for developers making it easy for them to use within their own existing environment, so they don't need to learn any new technology. Reshift allows development teams to have confidence in the security of their code so they can prove to their clients that they are proactively on top of any security risk.

UNDERSTANDING RESHIFT'S CODE SCANNING PLATFORM PERFORMANCE

Reshift conducted a CENGN project to better understand their scanner's performance. The CENGN Testbed provided the heavy computing power needed to shorten their testing timeframe, a large improvement on the estimate of a year for Reshift to complete the project in their own environment. The company gained insight on the impact of changing the number of rules in their scanner, identifying a scanner and rule set configuration that enables optimal performance. Reshift now leaves the project with a better understanding of their scanner's performance under different situations.

> "The ability to measure performance of multiple scanner iterations/versions against a good representation of open-source projects gave us a strong understanding of our scanner performance."
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> **Emad Messiha**
> Senior Developer, Reshift