



Enhancing automotive safety with Bugcrowd

How Savant Forge automated code testing, reduced manual efforts, and optimized resources for an automotive leader

THE SITUATION & CHALLENGE

An automotive company specializing in automation and safety technology for autonomous vehicles (who wished to remain anonymous for this case study) is currently operating in an incredibly regulated, life-critical industry.

Being able to fuzz its code to find and fix software defects is essential for its business model. However, having to allot engineering headcount for this task isn't always feasible.

So, they had to look for options allowing autonomous and continuous fuzzing to run in the background while their engineers focused on more mission-critical projects.

When fuzzing is used to test complex software systems, it can take a long time to run and may generate many test cases, further increasing resource usage. Furthermore, when the fuzzer

discovers a bug or a vulnerability, it may trigger the software to crash, hang, or enter into an infinite loop, further consuming resources, such as CPU time, memory, and disk space, if left unattended.

Additionally, fuzzing generates and processes large amounts of data in a random fashion, which can result in many program executions and the creation of many temporary files.

This customer needed to fuzz their code automatically while reducing the number of manual tests and local resources to run tests. All of this needed to be done without increasing headcount or allocating the time to build an auto-fuzzing tool.

THE SOLUTION

This automotive software company decided to leverage Savant Forge, previously known as Mayhem Code Security, to implement and manage its continuous fuzzing needs while reducing the resources and the number of manual tests they have to run. Savant Forge takes the resource burden off the user.

Bugcrowd finds things that engineers cannot see and helps us find vulnerabilities before the attackers do.

**Senior Technical Director,
Automotive Company**

Being able to run more tests and being able to free up local resources has allowed the company to focus on improving its lifecritical product.