TestMu AI
Formerly LAMBDATEST

2.7 Million Tests, Zero Bottlenecks: How Best Egg Built Financial Trust Through Robust QA

Success Metrics

2.7 Mn Automation Tests

4X Faster Test Execution

128K Real Device Native App Tests
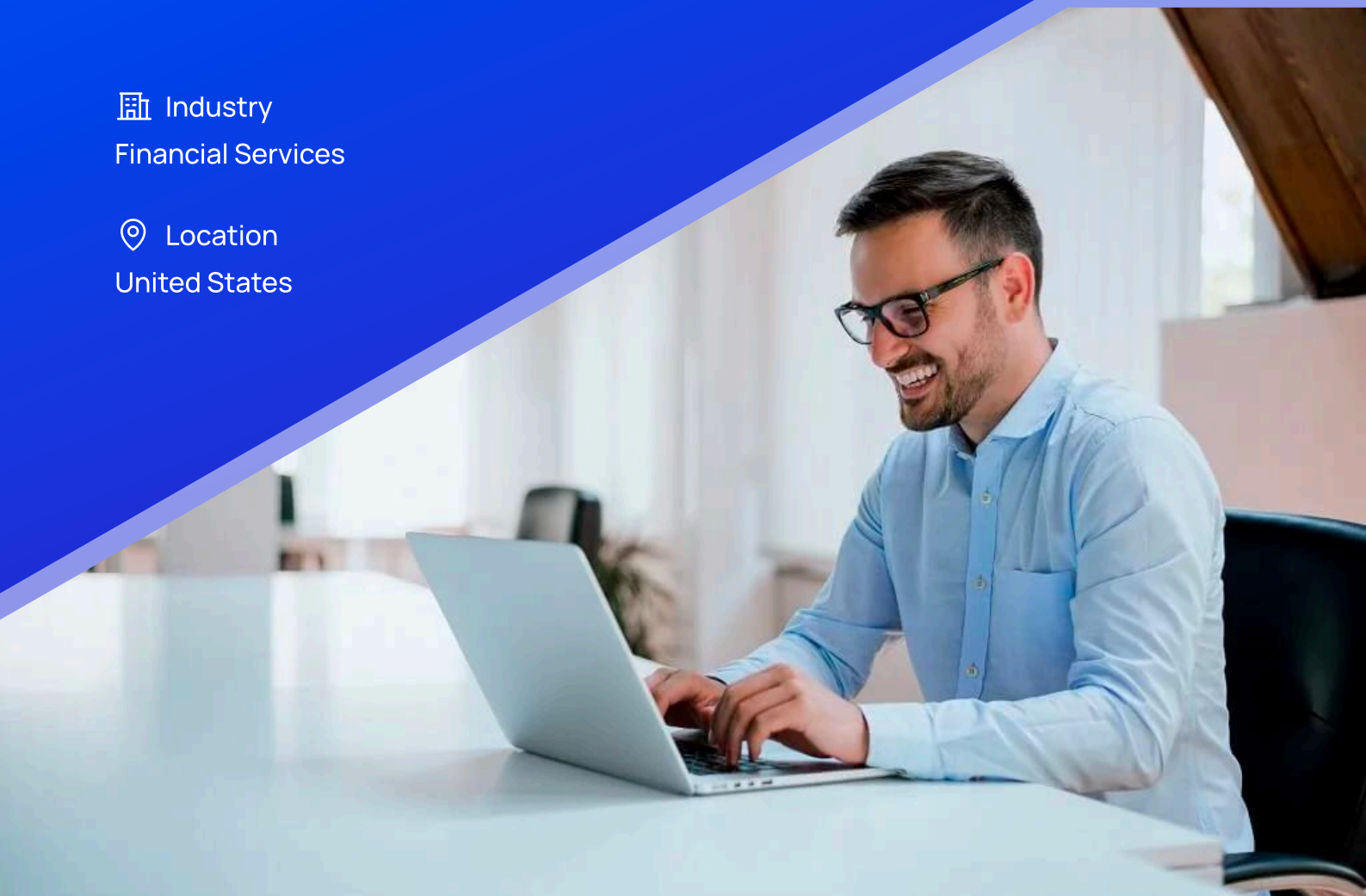
Industry
Financial Services

Location
United States

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Company Profile

A fintech platform helping people with limited savings manage everyday finances.

- Achieved strong milestones: over $30 billion lent across ~1.1M Funded Loans
- Named one of the Top Workplace in USA (2024)—second consecutive year
- Provides free financial tools powered by MX Technologies for deeper financial insights

About The Company: Generations Of Securing Financial Futures

Best Egg is a leading consumer financial technology platform that provides personal loans, financial health tools, and vehicle equity loans for people making significant financial decisions. They deliver tailored financial support through a seamless digital experience, establishing trust as a reliable partner during life transitions.

The company's name reflects their mission: becoming customers' best financial nest egg during life transitions.

> We meet customers at meaningful transition points in their financial journeys. Financial decisions carry significant emotional weight for people. Our customers associate Best Egg with those transformative moments, and we're proud to become part of their personal success stories.- **Tenny Agustin, Engineering Operations Lead, Best Egg**

At a glance

Industry :
Financial Services

Challenge :
Best Egg struggled with outdated testing infrastructure, hour-long test runs, limited browser coverage, and complex reporting systems that created bottlenecks for releases and required constant engineering support.

Location :
United States

Key Highlight :
TestMu AI reduced test execution time from hours to under 15 minutes while enabling execution of 2.7 million automation tests and 128,932 real device tests with clear reporting for all team members.

Solution Used :
Automation Testing Cloud ⬈
Real Device Cloud ⬈
Native App Automation ⬈
Test Intelligence ⬈

When "Good" Solutions No Longer Support Growth

Best Egg's in-house testing infrastructure supported their journey from a startup to an established fintech company. But it could no longer support their expanding customer base and product line.

> "We started out with a small team and a good testing solution. And it worked for the time. Then we expanded to different products and had many more customers and the same testing solution had become an obstacle for us," Tenny recalls.

Their existing testing approach faced multiple critical challenges:

- **Time-consuming execution**: Tests took more than an hour to complete, creating release bottlenecks. "Why has it been an hour and it still hasn't outputted our results?" was a common frustration.

- **Poor reporting infrastructure**: Their system used "a very basic bootstrap application" that often displayed test steps out of order. "The screenshots weren't timed well and didn't add much value when reading test results."

- **Technical barriers:** The Java-based testing solution was "too heavy" with "way too much boilerplate code," making it difficult for testers to focus on test logic and instead spend more time writing test code.

- **Limited test coverage**: "Most of our tests were not emulating different browsers. We'd get the latest version of Chromium and run it on that," resulting in minimal coverage for other browsers like Firefox, Edge, older browser versions, and mobile devices.

- **Dependency on engineers:** When tests failed, the team needed to go to an engineer and ask, 'Why did this fail? What do these results mean?' This created bottlenecks for testers and diverted engineering resources.

Best Egg also used a cloud testing platform for simulating different devices and browsers. However, the platform was built across monolithic architecture, making it difficult to integrate properly with their regression infrastructure and thus, couldn't be used effectively. These limitations affected their ability to meet quality demands and release software efficiently.

> "The platform ended up bottlenecking our releases. We had to ask for developer's valuable time to help us with fixing QA issues, time that could've been spent working on something more important."- Tenny

How TestMu AI Helped Best Egg Make Testing Easier for Everyone

Best Egg came across TestMu AI that checked all their requirements and helped modernize their testing approach.

> **"We needed something a little bit more modern. I keep honing in on the modernization part because I think that has been a huge lift for us. It delivered on helping our business grow to where it's at, facilitating that growth." — Tenny**

Parallel Testing - Easy to scale test infra - Time

With TestMu AI reliable and scalable infrastructure, Best Egg was able to achieve parallel test execution for both mobile and web.

"We're executing our mobile tests at the same time as our web tests, which was not a world that we lived in in the past."

This parallel execution capability supports Best Egg's impressive testing volume:

- 2.7 million automation tests completed (both web and mobile)
- 128k native app tests executed over real devices

AI-Native Intelligence Eliminates Manual Testing Overhead

Best Egg's testing bottlenecks went beyond just infrastructure constraints. They were trapped in manual processes that required constant human intervention and engineering support.

HyperExecute's AI-native test orchestration platform transformed Best Egg's testing from a manual, error-prone process into an intelligent, self-managing system.

The platform's AI capabilities automatically handle the complex decisions that previously required engineering time: intelligently splitting test workloads for optimal performance, reordering tests based on failure patterns and dependencies, and automatically retrying failed tests to distinguish real issues from transient glitches.

This intelligent automation addressed Best Egg's core challenge of engineering dependency. Instead of developers spending time troubleshooting test infrastructure and analyzing false positives, the AI handles these routine decisions automatically, allowing the team to focus on actual product development.

The result was a complete shift from reactive testing support to proactive, autonomous test execution. This shift helped Best Egg scale their testing volume to **2.7 million tests** without proportionally scaling their engineering overhead.

Real Devices Cloud for Multi-Platform Testing

Real device testing became central to Best Egg's strategy. "We could test the native app to see if it works on a Samsung Galaxy or any other device on demand," Tenny notes. "Real device testing gave us more confidence compared to simulated tests."

This comprehensive approach made sure Best Egg could reliably test across the diverse devices their customers use: from modern smartphones to unexpected platforms.

> "We've even seen weird stuff where people run these apps on their Xbox or on their smart fridge," Tenny mentions.

And being able to test across varying screen sizes has helped ensure all these out-of-the-box use cases are handled well.

AI-Native Test Intelligence for Smarter Insights

TestMu AI provided **AI-native comprehensive test insights** that everyone could understand, not just limited to the technical staff.

This created an intuitive dashboard that anybody can look at and feel empowered to identify the problem, true failure vs. a false positive, etc.

The team could now look at flaky test trends, classification of errors, and notification updates.

> If something is wrong and we need to take developers away from their day-to-day work to take a look at it, that's a burden. That's time misspent. The thing that TestMu AI has helped us do is figure out a more productive way of seeing the health of our system and addressing failures in a lower environment." — Tenny

And being able to test across varying screen sizes has helped ensure all these out-of-the-box use cases are handled well.

TestMu AI's Language Flexibility Helped Rid Development Constraints

Best Egg's previous testing infrastructure locked them into a single programming language approach that created unnecessary barriers for their team. Their Java-based solution required excessive boilerplate code that distracted from actual test logic, regardless of their team's preferences or expertise.

"The Java solution was too heavy for our needs," notes Tenny. "There's way too much boilerplate code required, which becomes a barrier to efficient testing."

TestMu AI's support for all programming languages and frameworks gave Best Egg the freedom to choose the right tool for their team and business needs. This flexibility allowed them to optimize for speed and accessibility rather than being constrained by platform limitations.

By removing language barriers, Best Egg could select Python for its simplicity and broader team familiarity, dramatically reducing development time and expanding who could contribute to testing efforts.

"More people know Python," Tenny adds. "It makes it a lot easier and faster to write tests that way. For the demands of our business, we need people to be able to write tests fast."

This language flexibility became a key enabler for Best Egg's testing scalability and team efficiency.

TestMu AI automation testing platform supports all programming languages and frameworks, helping us get rid of our excessive dependency on Java. We were able to transit to Python, which helped reduce our lines of code.

Image Source : Microsoft Future Ready Event

“

LambdaTest (Now TestMu AI) is creating that next level of efficiency around test automation so that people can actually focus on testing versus test orchestration.”

Satya Nadella, CEO, Microsoft

Results That Spoke Volumes

TestMu AI helped change Best Egg's testing workflows with measurable, dramatic improvements across every part of their quality assurance efforts.

- **75% Faster Test Execution:** Test execution times dropped from a full hour to approximately fifteen minutes. "It just feels more on demand," Tenny explains.

- **2.7 Million Automation Tests:** Best Egg now powers through 2.7 million automation tests and 128,932 real device tests, volumes previously unthinkable. This ensures flawless performance across diverse customer devices.

- **Zero Engineering Bottlenecks:** "There's less context switching for engineers. Engineers write more tests or more features," notes Tenny. Technical talent now drives innovation rather than troubleshooting infrastructure.

- **100% Release Confidence:** "We're able to release faster because we can test more. We have better test coverage. It increases confidence in the platform," Tenny shares, confidence that extends to customers making critical financial decisions.

What's Next for Best Egg

Best Egg continues iterating and improving their approach.
While Best Egg is currently focused on building out infrastructure for their current testing platform, they plan on experimenting with Kane AI for test authoring.

> "TestMu AI helps us meet the demands of the changing environment as a fintech company, giving us the assurance and confidence to deliver best-in-class experiences," summarized Tenny.

For Best Egg, quality is central to their brand promise of supporting customers at life's most important financial moment

> "The change in our approach to testing and quality was about honoring the trust customers place in us. Making sure that the core of the product is stable and healthy and reliable is a huge part of our brand." — Tenny

About TestMu AI

TestMu AI (Formerly LambdaTest) is a fully autonomous agentic quality engineering platform that empowers teams to test intelligently, smarter, and ship faster. Over 10,000+ customers and 2 million+ users across 132+ countries rely on TestMu AI for their testing needs.

1.2 Bn+ Tests

2M+ Users

10K+ Enterprises

132+ Countires

🔭 Exploratory Testing

Enhance web and app quality to ensure seamless user experience with real-time, live, exploratory testing on 10,000+ devices.

🥽 KaneAI

Boost testing efficiency with an AI platform that uses natural language to create, debug and evolve tests.

📑 Test Manager

Streamline test creation, management, & reporting for improved efficiency with AI - native unified Test Manager.

📡 Automation Cloud

Accelerate product releases with secure, scalable, end-to-end test automation in the cloud.

📱 Real Device Cloud

Test on 10,000+ real Android and iOS devices, and 3000+ browser combination cutting costs while ensuring compatibility.

⚡ HyperExecute

Accelerate testing speed by 70% with AI-Native orchestration for faster digital transformation.

♿ Accessibility Testing

Ensure inclusive, accessible websites with TestMu AI's manual and automated Accessibility Testing tool.

👁 Visual UI Regression

Achieve UI perfection quickly with AI-Native visual regression testing across all platforms.

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