



ZIGHRA INNOVATION HIGHLIGHT



COMPANY OVERVIEW

Zighra is a cybersecurity company with patented AI-powered continuous multifactor authentication (CMFA) and fraud detection solutions to protect organizations and individuals. Zighra’s technology is the first of its kind. Its privacy-preserving, on-device behavioural authentication capabilities are now certified as FIDO-compliant. Its proprietary artificial intelligence and machine learning algorithms work 10x faster than traditional approaches to continuously build highly accurate user and device authentication models, securing identities and organizations.

LOCATION: OTTAWA, ON

TECHNOLOGY



Security

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THE NEED FOR CONTINUOUS CYBERSECURITY

Increases in the volume and sophistication of cyber-attacks have exposed the fundamental risk of outdated one-time authentication. Even with passwordless and conventional multifactor authentication, organizations are exposed to attacks that occur beyond the login. These cyber defence challenges are further exacerbated by the increased threat surface from cloud adoption and remote workforces.

CONTINUOUS MULTI-FACTOR AUTHENTICATION SOLUTION

To address cybersecurity challenges, Zighra provides its continuous multifactor authentication solution for PC and mobile devices. Zighra delivers continuous intelligence to verify and validate the user’s identity without the slightest disruption to user experience. Zighra accurately recognizes every user based on their habits and device interaction patterns when plugged into existing systems. This is done by actively tracking and evaluating the user’s unique cognitive interaction signature with smart device sensors to create highly personalized AI models for user identification.

VALIDATION OF PLATFORM CAPACITY FOR USER BASE GROWTH

With the help of CENGN’s infrastructure, Zighra analyzed the simultaneous transaction limits on their servers. The testing proved that their authentication platform could sustain its target number of simultaneous users under its current platform architecture. Additionally, Zighra validated its scaling capabilities and developed a horizontal scaling strategy to enable faster response times and potential scaling challenges. These discoveries now allow Zighra to continue to grow the number of users on the platform to meet the needs of large enterprises.

“With the CENGN testbed, we proved that our continuous authentication platform could sustain up to 10,000 simultaneous users under the current architecture with ample resources available.”

Deepak Dutt
CEO, Zighra

