



# AUTISM HACK-A-THON

2025

**APRIL 2<sup>nd</sup> & 3<sup>rd</sup> (In-Person or Virtual)**

New York City, London, and Virtual via Teams

Bring FSI developers together to demonstrate how innovative Microsoft technologies can transform autism treatment by tackling real world use cases provided by families and creating lasting open-source projects for the community.



# 2025 USE CASES

## USE CASE 1: THERAPY DELIVERY COPILOT REINVENTION

Direct intervention therapy, up to 30 hours a week, is crucial for those with profound autism, but issues of quality, transparency, consistency, and access persist. This new approach reinvents the therapeutic environment using AI and cognitive technology to support teams. A Digital Command Center captures multi-sensory data, helps therapists understand session dynamics, provides real-time support, and allows them to focus on the child or young adult.

## USE CASE 2: PROGRAM DEVELOPMENT DESIGN COPILOT

Program quality varies due to overworked and underpaid analysts managing a backlog of clients, which can negatively impact children or young adults and hinder their future independence. Copilot supports Board Certified Behavior Analysts (BCBAs) by using advanced AI and cognitive technology to design customized, enjoyable treatment plans for each child. This approach aims to improve individual outcomes and provide higher quality care and support over a lifetime.

## USE CASE 3: PATIENT ON-BOARDING COPILOT

Service providers and clinics struggle with onboarding new clients due to the extensive information processing required, which isn't covered by insurance, increasing costs and creating barriers. Copilot streamlines this process using advanced AI and cognitive technology to quickly summarize client information, enabling providers to understand cases in minutes and develop plans efficiently. This solution lowers entry barriers, enhancing service availability and quality, especially in underserved areas.

## USE CASE 4: FRIENDLY NEIGHBORHOOD MOBILE NETWORKING APP

Stephen Shore's quote, "When you know one person with autism, you know one person with autism," highlights the diversity of needs in autism, making it challenging for parents to find appropriate services, especially during transitions. This app uses AI to match individual needs with available services, ensuring tailored support and improving service availability and quality, particularly in underserved areas.

## USE CASE 5: JOB SKILL TRAINING USING AUGMENTED REALITY

Transitioning from school to the workforce is one of the biggest challenges for parents and caregivers, especially for those with profound autism. This use case leverages Augmented Reality and Gen AI to teach job skills, provide feedback, and introduce gamification, enhancing scalability from 1:1 to 1:N support.

## USE CASE 6: EMPOWERING SOCIAL CONNECTIONS USING METAVERSE

Navigating social situations can be challenging, especially for those on the autism spectrum who struggle with reading social cues. This app uses virtual reality and generative AI to create a scalable, safe environment for practicing social interactions, offering variety and feedback to help users improve their responses and build confidence.

## WHAT'S NEXT?

Please complete the 2025 Autism Hackathon registration form, and we'll contact you with further information.

<https://forms.office.com/r/vStPG3iVmV>

2025 FSI Autism Hackathon -  
Registration

