

# FSI Hackathon for Autism '23: Training Guide

*6<sup>th</sup> Annual Hackathon – April 19 & 20*

This document contains links, resources, and sessions intended to help in skilling and preparation for the Hackathon. Please feel free to share with others in your organization and reach out to [brigit.ieuter@microsoft.com](mailto:brigit.ieuter@microsoft.com) if you have any additional questions.

## Live Sessions

### Ask Me Anything Sessions

*Hosted by the planning team - bring your questions and learn more about the Hackathon, what to expect and how to prepare!!*

Date & Time	Session	How to Join
<b>Friday Mar 17, 3-3:45pm EST</b>	'Ask Me Anything' #1	Contact <a href="mailto:brigit.ieuter@microsoft.com">brigit.ieuter@microsoft.com</a> to be added!
<b>Friday April 14, 4-4:45pm EST</b>	'Ask Me Anything' #2	Contact <a href="mailto:brigit.ieuter@microsoft.com">brigit.ieuter@microsoft.com</a> to be added!

## Use Case Overviews

*Live sessions hosted by each of the use case tech leads. The format will be a brief overview followed by open discussion. Please bring your questions and ideas! If you cannot join this session, please reach out to the planning team and we will have your questions addressed. **You are welcome to join any of the sessions, however these are meant to prepare you for the Use Case you are assigned to – We will begin assigning in Mid-March.***

Date & Time	Session	How to Join
<b>Thursday April 6, 4-4:45pm EST</b>	<b>Use Case 1</b> Overview with the tech leads	Contact <a href="mailto:brigit.ieuter@microsoft.com">brigit.ieuter@microsoft.com</a> to be added!

<b>Wednesday April 5, 4-4:45pm EST</b>	<b>Use Case 2</b> Overview with the tech leads	Contact <a href="mailto:brigit.ieuter@microsoft.com">brigit.ieuter@microsoft.com</a> to be added!
<b>Wednesday April 5, 3-3:45pm EST</b>	<b>Use Case 3</b> Overview with the tech leads	Contact <a href="mailto:brigit.ieuter@microsoft.com">brigit.ieuter@microsoft.com</a> to be added!
<b>Thursday April 6, 4:30-5:15pm EST</b>	<b>Use Case 4</b> Overview with the tech leads	Contact <a href="mailto:brigit.ieuter@microsoft.com">brigit.ieuter@microsoft.com</a> to be added!
<b>To be determined</b>	<b>Use Case 5</b> Overview with the tech leads	Contact <a href="mailto:brigit.ieuter@microsoft.com">brigit.ieuter@microsoft.com</a> to be added!

## Instructor-led technical training

*Space is limited so reserve your spot now!*

<b>Mon/Tues March 6-7, 7:00AM-9:00AM EST</b>	<b>Azure Well Architected Framework</b>	<a href="#">Register</a>
<b>Wed/Thur March 15-16, 9:00AM-12PM EST</b>	<b>DevOps with GitHub</b>	<a href="#">Register</a>
<b>Thurs March 23, 9:00AM – 12:00PM EST</b>	<b>Tech Days: Learn “Go” on Azure</b>	<a href="#">Register</a>

## Autism – Current State and Technology

*The following sessions are intended to provide you with more background on where the use cases come from, why they matter, and the impact and meaning behind the Hackathon.*

Date & Time	Session Description	Link to Join
<b>Thur Mar 30, 4-4:45pm EST</b>	Family Roundtable <i>Hear directly from parents of children with autism to learn more about their experience and what has inspired the hackathon!</i>	Contact <a href="mailto:brigit.ieuter@microsoft.com">brigit.ieuter@microsoft.com</a> to be added!
<b>Fri Mar 24, 4-4:45pm EST</b>	State of Autism Technology – Dr. Rick Kubina <i>Learn the why's behind the technology that exists today for autism therapy, current state, &amp; gaps</i>	Contact <a href="mailto:brigit.ieuter@microsoft.com">brigit.ieuter@microsoft.com</a> to be added!

# Self-Paced Learning & Resources

## Technical Skilling

Use Case Focus	Link to Learning Path
<b>All</b>	<a href="#">Azure Fundamentals part 1: Describe core Azure concepts (60 min)</a>
<b>All</b>	<a href="#">Azure Fundamentals part 2: Describe Azure architecture and services (3.5 hours)</a>
<b>All</b>	<a href="#">Azure Data Fundamentals: Explore core data concepts (45 min)</a>
<b>1 and 2</b>	<a href="#">Azure AI Fundamentals: Computer Vision in Microsoft Azure (3 hours)</a>
<b>1 and 2</b>	<a href="#">Extract insights from videos with the Video Indexer service (45 min)</a>
<b>1 and 2</b>	<a href="#">Create and manage Cognitive Services (45 min)</a>
<b>1 and 2</b>	<a href="#">Process and Translate Speech with Azure Cognitive Speech Services (2 hours)</a>
<b>1 and 2</b>	<a href="#">Detect and Recognize Faces with Computer Vision AI (1 hour)</a>
<b>3</b>	<a href="#">Introduction to Azure IoT (30 min)</a>
<b>3</b>	<a href="#">Develop IoT solutions with Azure Sphere and Azure IoT Central (2 hours)</a>
<b>4</b>	<a href="#">Introduction to Mixed Reality (45 min)</a>
<b>4</b>	<a href="#">HoloLens 2 Fundamentals: Develop Mixed Reality Applications (5.5 hours)</a>
<b>4</b>	<a href="#">Use Azure Spatial Anchors to anchor objects in the real world (20 min)</a>

## GitHub learning & resources

Self-Paced Learning Paths:

- <https://lab.github.com/>

Basic Resources:

- **Git Handbook:** <https://guides.github.com/introduction/git-handbook/>
- **The GitHub Flow:** <https://guides.github.com/introduction/flow/>

## GitHub Beginner Courses:

- Introduction to GitHub: <https://lab.github.com/githubtraining/introduction-to-github>
- Communicating with Markdown: <https://lab.github.com/githubtraining/communicating-using-markdown>
- Reviewing a Pull Request: <https://lab.github.com/githubtraining/reviewing-pull-requests>

## Actions Courses:

- DevOps with Actions Path: <https://lab.github.com/githubtraining/devops-with-github-actions>
- GH Actions: Continuous Integration: <https://lab.github.com/githubtraining/github-actions:-continuous-integration>
- GH Actions: Continuous Delivery for Azure: <https://lab.github.com/githubtraining/github-actions:-continuous-delivery-with-azure>

## GitHub Recordings & Videos

- [30 Minutes to Merge](#) – *An awesome video* walk through by one of Services Engineer leveraging branches (feature & releases), Actions, and the GitHub Flow.
- [Containerized Deployments with GH Actions + Packages](#) – A recording I did leveraging Actions and Packages to deploy to Azure Web App Services as well as Azure Kubernetes.

## Git Basic Cheat:

- [Simple Git cheat sheet](#) with the basic git commands.
- [Amazing video tutorials](#) – It is a sequence of several short videos that show Git Basics