

# UWA Data Institute

Industry Skilling Pathway





## SPEAKERS



MICHELLE  
SANDFORD

Developer Engagement Lead  
for emerging communities,  
Microsoft

[www.linkedin.com/in/michellesandford/](https://www.linkedin.com/in/michellesandford/)

<https://github.com/codess-aus>

Twitter: @codess\_aus

Instagram: @codess\_aus

TikTok: @codess\_aus

## AGENDA

What do the  
Students say?

Q&A

Why add these  
industry  
certifications to  
your workload?

What will it be  
like?

# Acknowledgement of Country



# Research findings



MICHELLE SANDFORD  
Developer Engagement Lead

# Continuous up-skilling leads to career success



*“ We are in the midst of a skills revolution. People with in-demand skills who can continually learn and adapt can call the shots.*

*~Jonas Prising, Chairmain & CEO, ManpowerGroup*

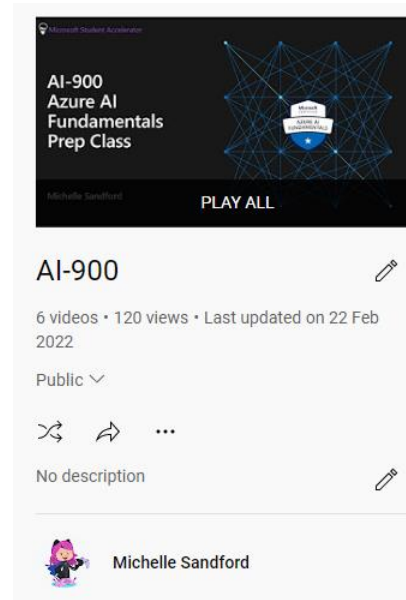
*“ When selecting new graduate hires we have a preference for those who have participated in a bootcamp, hackathon or earned a Microsoft Certification. These graduates are typically more productive with a faster ramp time of ~1 month.*

*~Isha Prabhakar, University Recruiting Manager, Microsoft*

How can you develop these skills – starting today?

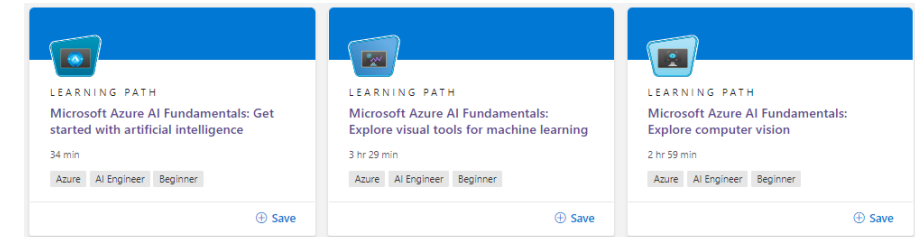
## Exam Prep Series

<https://aka.ms/AI900video>



## Microsoft Learn (Self-paced)

<https://aka.ms/UWADI-AI900>



## Microsoft Student Accelerator (Self-paced)

<https://aka.ms/msa22-rego>



# What the Participants are Saying



**Michelle Sandford**  
Developer Engagement Lead @  
Microsoft



**DAVID SMITH**  
University of Western Australia  
Masters of Data Science Student



**BENALDY MERDI**  
Curtin University  
BSc Financial Mathematics Student



Michelle Sandford @Codess\_Aus



DavidSmith





## Level Up with AI!

### The Institute of Data Cloud Skills Challenge


Learn. Compete. Win with the Microsoft x Institute of Data Cloud Skills Challenge

Using Microsoft Learn, our free, digital learning platform, compete with others by completing the AI Fundamentals learning path. Everyone who completes the challenge will receive an AI-900 exam voucher.

The challenge closes on **June 15, 2022** so join the leaderboard and level up with learning today!

REGISTER NOW >



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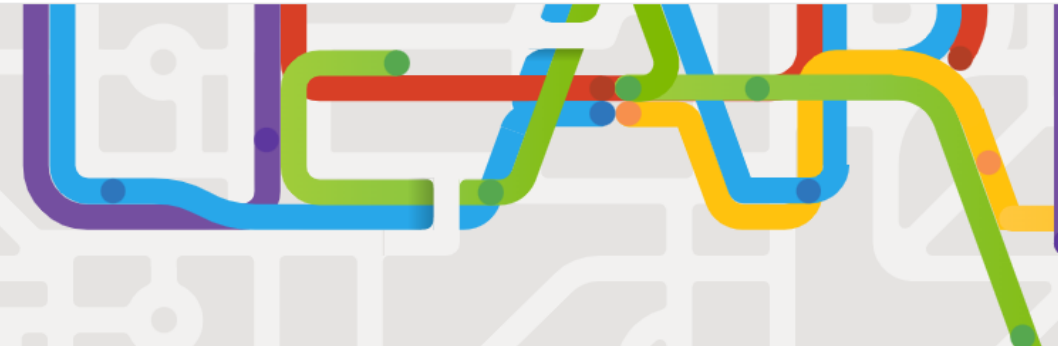
WELCOME TO MICROSOFT LEARN


## Discover your path

Whether you're just starting or an experienced professional, our hands-on approach helps you arrive at your goals faster, with more confidence and at your own pace.

[Customize my path](#)

[Browse the full catalog](#)






LEARNING PATHS

### Learn on your own schedule

Explore a topic in-depth through guided paths or learn how to accomplish a specific task through individual modules.

[Browse all learning options](#)




CERTIFICATIONS

### Become Microsoft certified

Jump-start your career and demonstrate your achievements through industry-recognized Microsoft certifications.

[Explore Certifications](#)




LEARN TV

### Watch live and recorded events

View streaming technical content about Microsoft products from the experts that build and use it every day.

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## Popular learning paths and modules




LEARNING PATH

### Microsoft Azure Fundamentals: Describe core Azure concepts

1 hr 34 min

[Azure](#) [Administrator](#) [Beginner](#)

[Save](#)




LEARNING PATH

### Microsoft Azure Fundamentals: Describe core Azure services

2 hr 40 min

[Azure](#) [Administrator](#) [Beginner](#)

[Save](#)




MODULE

### Get started building with Power BI

40 min ★★★★★ 4.8 (55,540)

[Microsoft Power Platform](#) [Business User](#) [Beginner](#)

[Save](#)




LEARNING PATH

### Microsoft Azure Fundamentals: Describe core solutions and management tools on Azure

2 hr 20 min

[Azure](#) [Administrator](#) [Beginner](#)

[Save](#)




MODULE

### Choose the right Azure services by examining SLAs and service lifecycle

27 min ★★★★★ 4.8 (19,075)

[Azure](#) [Administrator](#) [Beginner](#)

[Save](#)



MODULE

### Secure network connectivity on Azure

34 min ★★★★★ 4.8 (17,818)

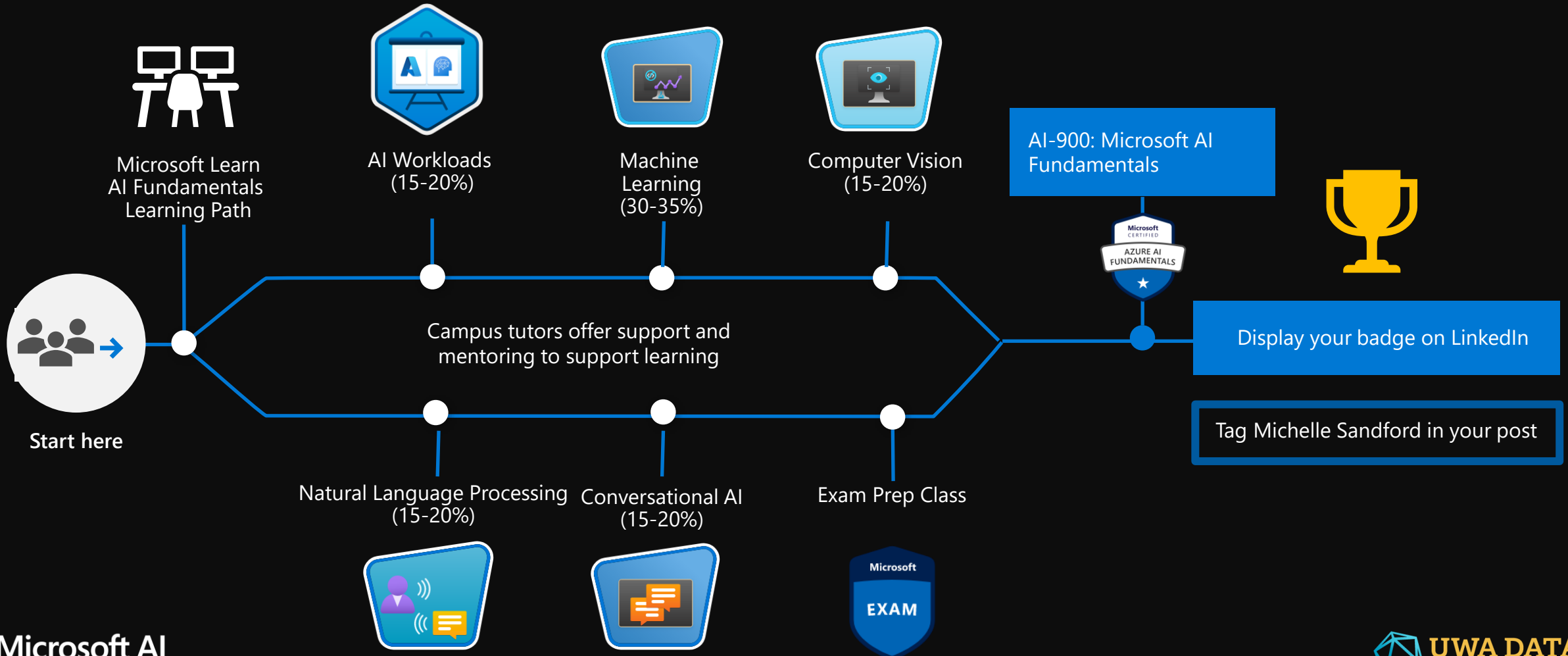
[Azure](#) [Administrator](#) [Beginner](#)

[Save](#)


# AI Azure Fundamentals: Student Journey

## Learn the content

## Certification & Celebration



## Institute of Data: AI Fundamentals Challenge

9 hr 44 min • 16 Modules • Created by  Microsoft

 Share

[See the challenge](#)

### Items in this collection

MODULE

[Get started with AI on Azure](#)

34 min

★★★★★ 4.8 (34,974)

MODULE

[Use automated machine learning in Azure Machine Learning](#)

45 min

★★★★★ 4.7 (9,965)

MODULE

[Create a Regression Model with Azure Machine Learning designer](#)

55 min

★★★★★ 4.7 (7,148)

MODULE

[Create a classification model with Azure Machine Learning designer](#)

1 hr

★★★★★ 4.7 (5,795)

MODULE

[Create a Clustering Model with Azure Machine Learning designer](#)

49 min

★★★★★ 4.7 (7,916)

MODULE

[Create a Clustering Model with Azure Machine Learning designer](#)

49 min

★★★★★ 4.7 (7,916)

MODULE

[Analyze images with the Computer Vision service](#)

28 min

★★★★★ 4.7 (4,893)

MODULE

[Classify images with the Custom Vision service](#)

37 min

★★★★★ 4.7 (4,211)

MODULE

[Detect objects in images with the Custom Vision service](#)

42 min

★★★★★ 4.7 (3,846)

MODULE

[Detect and analyze faces with the Face service](#)

24 min

★★★★★ 4.7 (3,791)

MODULE

[Read text with the Computer Vision service](#)

24 min

★★★★★ 4.7 (3,497)

MODULE

[Analyze receipts with the Form Recognizer service](#)

24 min

★★★★★ 4.7 (4,767)

MODULE

[Analyze text with the Language service](#)

36 min

★★★★★ 4.8 (3,836)

MODULE

[Recognize and synthesize speech](#)

29 min

★★★★★ 4.8 (3,443)

MODULE

[Translate text and speech](#)

29 min

★★★★★ 4.7 (3,181)

MODULE

[Create a language model with Conversational Language Understanding](#)

39 min

★★★★★ 4.8 (4,266)

MODULE

[Build a bot with the Language Service and Azure Bot Service](#)

29 min

★★★★★ 4.7 (7,764)





## Get started with AI on Azure

34 min • Module • 10 Units

★★★★★ 4.8 (34,974)

Beginner AI Engineer Data Scientist Student Bot Service Cognitive Services Machine Learning

With AI, we can build solutions that seemed like science fiction a short time ago; enabling incredible advances in health care, financial management, environmental protection, and other areas to make a better world for everyone.

### Learning objectives

In this module, you'll learn about the kinds of solution AI can make possible and considerations for responsible AI practices.

Start >

+ Save

### Prerequisites

None

### This module is part of these learning paths

Microsoft Azure AI Fundamentals: Get started with artificial intelligence

Introduction to AI

3 min

Understand machine learning

3 min

Understand anomaly detection

3 min

Understand computer vision

3 min

Understand natural language processing

3 min

Understand conversational AI

3 min

Challenges and risks with AI

3 min

Understand responsible AI

10 min

Knowledge check

2 min

Summary

1 min

1100 XP

## Introduction to AI

3 minutes

100 XP

AI enables us to build amazing software that can improve health care, enable people to overcome physical disadvantages, empower smart infrastructure, create incredible entertainment experiences, and even save the planet!

Watch the following video to see some ways that AI can be used.



### What is AI?

Simply put, AI is the creation of software that imitates human behaviors and capabilities. Key elements include:

- Machine learning - This is often the foundation for an AI system, and is the way we "teach" a computer model to make prediction and draw conclusions from data.
- Anomaly detection - The capability to automatically detect errors or unusual activity in a system.
- Computer vision - The capability of software to interpret the world visually through cameras, video, and images.
- Natural language processing - The capability for a computer to interpret written or spoken language, and respond in kind.
- Conversational AI - The capability of a software "agent" to participate in a conversation.

Next unit: Understand machine learning

Continue >

## Knowledge check

2 minutes

200 XP

1. You want to create a model to predict sales of ice cream based on historic data that includes daily ice cream sales totals and weather measurements. Which Azure service should you use?

- ☐ Azure Machine Learning
- ☐ QnA Maker
- ☐ Text Analytics

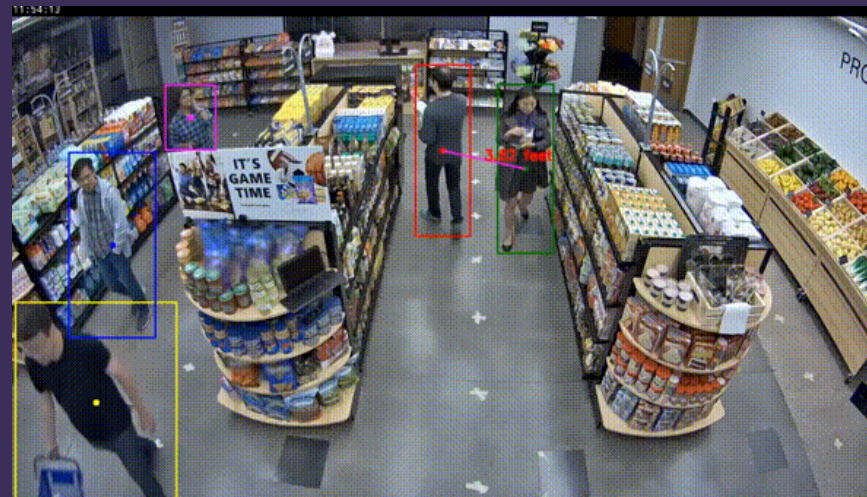
2. You want to train a model that classifies images of dogs and cats based on a collection of your own digital photographs. Which Azure service should you use?

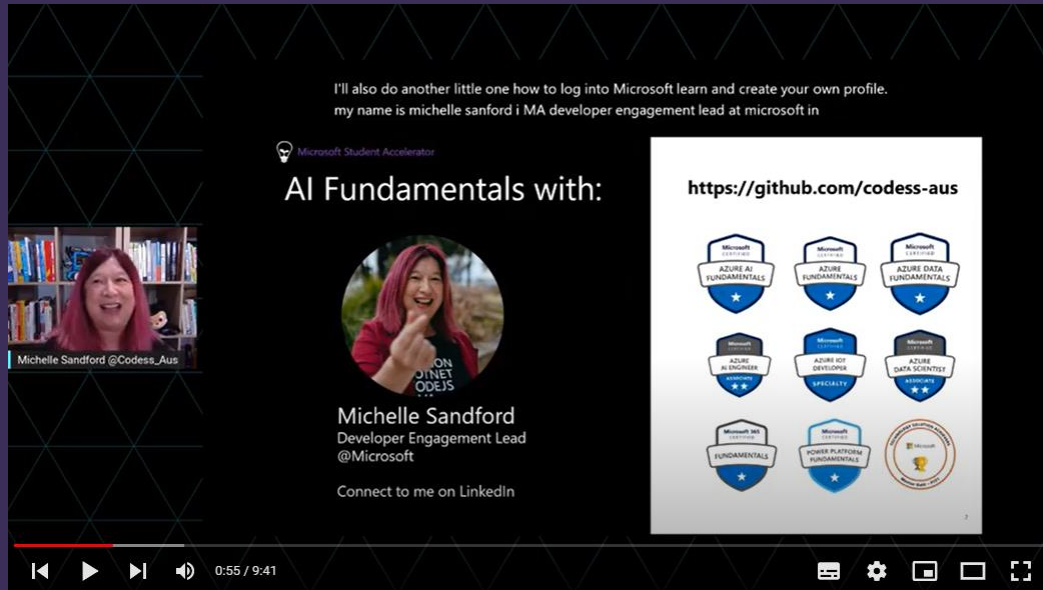
- ☐ Azure Bot Service
- ☐ Custom Vision
- ☐ Computer Vision

3. You are designing an AI application that uses computer vision to detect cracks in car windshields, and warns drivers when a windshield should be repaired or replaced. When tested in good lighting conditions, the application successfully detects 99% of dangerously damaged glass. Which of the following statements should you include in the application's user interface?

- ☐ When used in good lighting conditions, this application can be used to identify potentially dangerous cracks and defects in windshields. If you suspect your windshield is damaged, even if the application does not detect any defects, you should have it inspected by a professional.
- ☐ This application detects damage in your windshield. If the application detects a defect, have the windshield replaced or repaired. If no defect is detected, you're good to go!
- ☐ This application detects damage in any glass surface, but you must accept responsibility for using it only in appropriate lighting conditions.

Check your answers





**AI-900 Azure AI Fundamentals Prep Class**

Michelle Sanford

PLAY ALL

**AI-900**

6 videos • 120 views • Last updated on 22 Feb 2022

Public

No description

Michelle Sanford

**SORT**

- AI Fundamentals Exam Prep Intro**

Michelle Sanford

9:42
- AI Fundamentals Exam Prep Part 1**

Michelle Sanford

52:08
- AI Fundamentals Exam Prep Part2**

Michelle Sanford

23:23
- AI Fundamentals Exam Prep Part 3**

Michelle Sanford

21:36
- AI Fundamentals Exam Prep Part 4**


Michelle Sanford


21:13
- AI Fundamentals Exam Prep Part 5**

Michelle Sanford

15:29

# Microsoft Learn Profile

 | [Docs](#) [Documentation](#) [Learn](#) [Q&A](#) [Code Samples](#) [Shows](#) [Events](#)




**Michelle Sandford** Microsoft Employee  
misandfo@microsoft.com

ⓘ If you renewed, please note it can take a few minutes for your expiration date to update.


<b>159</b> Badges	<b>26</b> Trophies	<b>1</b> Reputation	<b>0</b> Answers accepted	<b>0</b> Following	<b>0</b> Followers	LEVEL 11 <div><div></div></div> 214300/227799 XP
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## Manage certifications


 [Go to Certification Dashboard](#)  
Manage appointments, certificates and transcripts.


### Certifications

 **MICROSOFT CERTIFICATION**  
**Microsoft Certified: Azure AI Engineer Associate**  
Expires on 1/7/2023 • Earned on 1/6/2021




 **MICROSOFT CERTIFICATION**  
**Microsoft Certified: Azure IoT Developer Specialty**  
Expires on 1/8/2023 • Earned on 1/7/2022

 **MICROSOFT CERTIFICATION**  
**Microsoft Certified: Azure Data Scientist Associate**  
Expires on 2/27/2023 • Earned on 2/26/2021

 **MICROSOFT CERTIFICATION**  
**Microsoft Certified: Azure Fundamentals**  
Earned on 4/30/2019

 **MICROSOFT CERTIFICATION**  
**Microsoft 365 Certified: Fundamentals**  
Earned on 12/10/2019


# Microsoft Certification Dashboard

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## Your dashboard

This is your Microsoft Certification dashboard. Here you will find everything related to your active and past certifications and certification exams. You will also find links to help you register for exams as well as view or download badges, certificates and transcripts of your certification accomplishments.

MCID: 2960098  
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### Congratulations

on passing Exam PL-900: Microsoft Power Platform Fundamentals

Find training information and schedule your next exam

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#### Exam providers



View and manage your exam history and appointments with a specific exam provider. For exams taken with Pearson VUE, you can also view a detailed score report.

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Preview or download a PDF certificate for each of your certifications. Please note it can take up to 48 hours after achieving or renewing a certification for the certificate to be generated.

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#### Appointments

 No appointments



02

A holistic balance of  
skills is important





# Your “human skills” are just as important



“Soft-skill intensive occupations are expected to account for two-thirds of all Australian jobs by 2030, compared to half of all jobs in 2000.

~ Deloitte Access Economics

“92% of employers say soft skills matter as much or more than hard skills.

~ LinkedIn

## 7 Essential Soft Skills Hays Recruitment

- 1 Teamwork
- 2 Problem-solving
- 3 Communication
- 4 Adaptability
- 5 Critical Thinking
- 6 Time-management
- 7 Interpersonal

### Global Skills Initiative

[aka.ms/gsi](https://aka.ms/gsi)



**Develop the ‘soft’ skills  
recruiters are looking for.**

As well as aptitude and certifications, recruiters look for good team players, clear communicators, critical thinkers and resilient, goal-oriented professionals. This course steps you through these and more essential soft skills in the workplace.

[Start here >](#)

# Be explicit with your technical skills



“ Be specific with your skills. For example, if you're a social media expert, be sure to also list the various social media sites you have expertise in. Don't assume the hiring manager will know every technology you've used.

~ Angela Copeland, Career Advice Expert

“ In most jobs that require extensive domain knowledge, the hard skills become extremely specific. You should aim to give the highest level of detail possible, to show that you appreciate how granular the field is.

~ Caitlin Mazur, Zippia The Career Expert

From This	To This
Cloud Computing	Microsoft Azure
Machine Learning	Microsoft Azure Machine Learning
Data Visualization	Microsoft Power BI
ERP	Microsoft Dynamics ERP
CRM	Microsoft Dynamics CRM
Curious	Requirements gathering

# This is IT



Premier Field Engineer

6



Account Technology Strategist

7



Technical Sales Professional

8



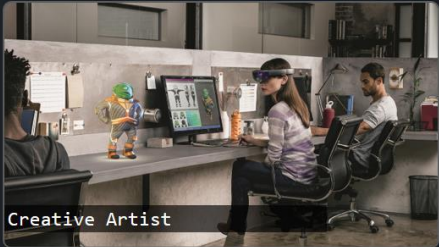
Audio Designer

9



Games Designer

10



Creative Artist

11



Mixed Reality Evangelist

12



Digital Advisor

13



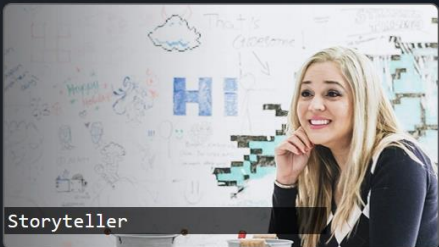
Product Manager

14



Cloud Solutions Architect

15



Storyteller

16



Engineer/Author/Fashion Designer/Chief Ninja Cat

17



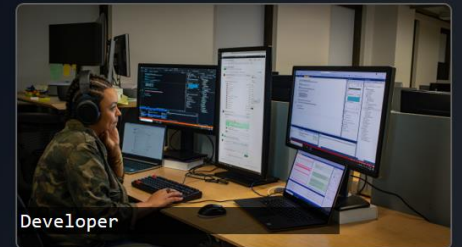
Chief Technology Officer/Author

18



Chief Executive Officer

19



Developer

20

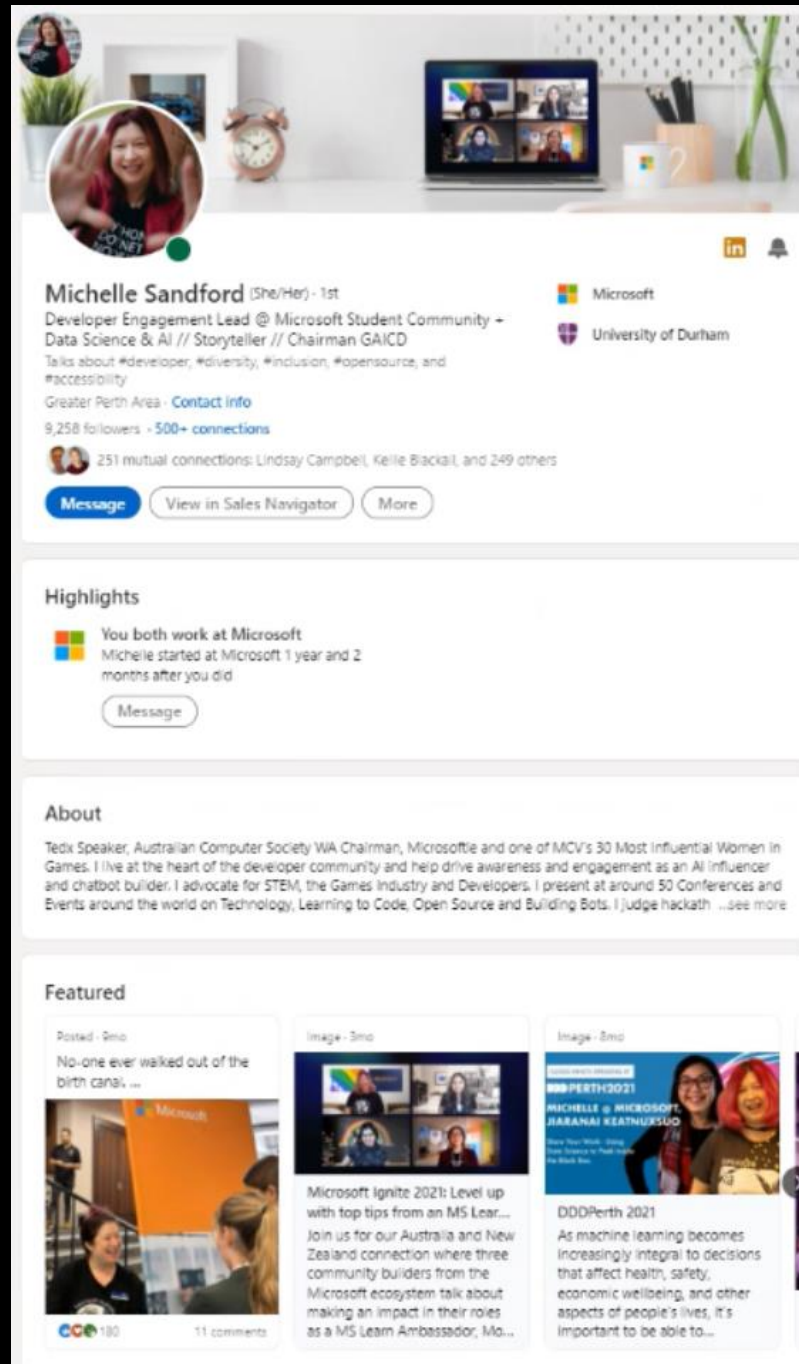


Visual Credibility

Personal Tagline

Be active = Be known

Visual storytelling



The image shows a LinkedIn profile for Michelle Sandford. The header features a circular profile picture of her waving, a background image of a desk with a laptop showing a video call, and a small clock. Below the header, the name 'Michelle Sandford' is followed by '(She/Her) · 1st' and a list of roles: 'Developer Engagement Lead @ Microsoft Student Community + Data Science & AI // Storyteller // Chairman GAICD'. There are also links to 'Talks about #developer, #diversity, #inclusion, #opensource, and #accessibility' and 'Greater Perth Area · Contact Info'. The profile shows '9,258 followers · 500+ connections' and '251 mutual connections: Lindsay Campbell, Kelle Blackall, and 249 others'. Action buttons for 'Message', 'View in Sales Navigator', and 'More' are present. The 'Highlights' section includes a note 'You both work at Microsoft' with a 'Message' button. The 'About' section describes her as a 'Tech Speaker, Australian Computer Society WA Chairman, Microsoft and one of MCIV's 30 Most Influential Women in Games'. The 'Featured' section displays three posts: a photo of her at a Microsoft event, a video call screenshot, and a photo of her with another woman.

Who can help you?

Elevator pitch


 @codess\_au


<https://aka.ms/wellconnected>


# Continuous Learning Mindset




**Education** +


**Durham University**  
BA Hons, Philosophy  
1992 - 1995  
Activities and societies: Bar Management Committee (Health & Safety Officer, Staffing Manager), NightLine  
Courses included Philosophy of Logic, Philosophy of Mind, Moral Philosophy, Ethics, Modern Philosophy, Ancient Philosophy, Psychology and Statistics.


**Newcastle University**  
MSC, Computing Science - Artificial Intelligence  
1995 - 1996  
Grade: Masters (Post-Graduate Degree)  
Activities and societies: Undergraduate Mentoring  
Dissertation focused on Artificial Intelligence, Natural Language Processing and Chat Bots.  
...see more

**Wirral Grammar School for Girls**  
English Literature, Government & Politics, Mathematics and General Studies  
1985 - 1992  
Activities and societies: Senior Prefect


**Licenses & certifications**


**Event Speaker Silver**  
Microsoft  
Issued Jan 2022 · No Expiration Date  
[Show credential](#)


**Microsoft Certified: Azure IoT Developer Specialty**  
Microsoft  
Issued Jan 2022 · No Expiration Date  
[Show credential](#)


**Microsoft Certified: Power Platform Fundamentals**  
Microsoft  
Issued Jan 2022 · No Expiration Date  
[Show credential](#)


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**Microsoft Sustainability in Action**  
Microsoft  
Issued Jan 2022 · No Expiration Date  
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**Microsoft Global Hackathon 2021**  
Microsoft  
Issued Sep 2021 · No Expiration Date  
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**Prosci® Change Management for Managers**  
Prosci  
Issued Mar 2021 · No Expiration Date  
[Show credential](#)

**Microsoft Certified: Azure Data Scientist Associate**  
Microsoft  
Issued Feb 2021 · No Expiration Date  
[Show credential](#)

**Microsoft Certified: Azure AI Engineer Associate**  
Microsoft  
Issued Jan 2021 · No Expiration Date  
[Show credential](#)

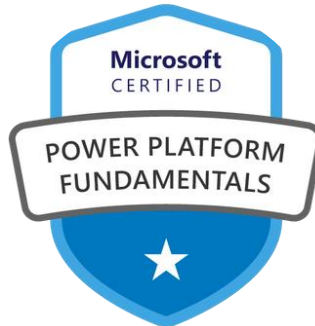
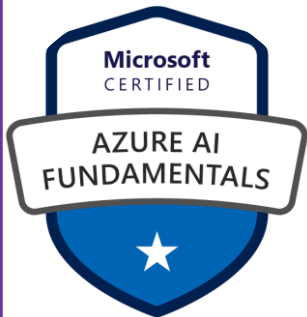


And what else...?

<https://aka.ms/wellconnected>

# Join us - Microsoft Student Accelerator

## Certify



## Build



## Connect



Register <https://aka.ms/MSA22-rego>

# Pattern Matching Skills



## Responsibilities

### Your Responsibilities

- Responsible for the customer support experience with Microsoft
- Own, troubleshoot and solve customer technical issues, using collaboration, troubleshooting best practices and transparency within and across teams (e.g. swarming)
- Identify cases that require escalation (either technically or strategically)
- Create and maintain incident management requests to product group or engineering group
- Contribute to case deflection initiatives, automation and other digital self-help assets to improve customer and engineer experience
- Provide ramp activities, knowledge sharing, technical coaching and mentoring
- Drive technical collaboration and engagement outside of CSS (Product Engineering teams, Services, Support, Regions)
- Lead or participate in building communities with peer delivery roles; may be workload or specialty specific

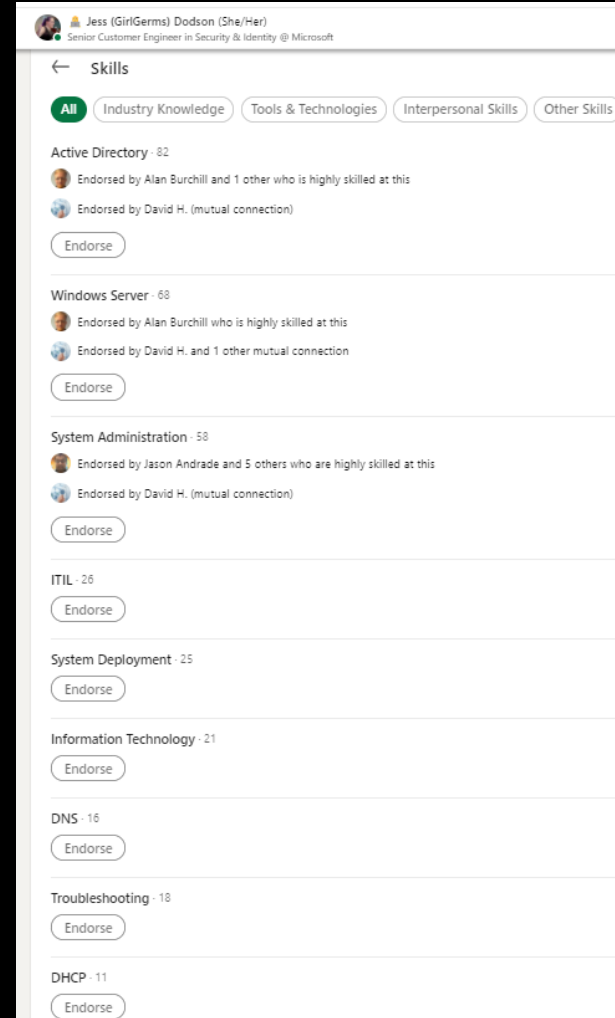
## Qualifications

### Language Qualification

Mandarin Language: fluent in reading, writing and speaking. English Language: confident in reading, writing and speaking.

### Required

- 2+ years prior product, technical support customer facing experience.
  - Technical experience and knowledge working in Azure technical support or equivalent technology.
  - Technical skills and hands on experience in 2 or more of the following areas: Active Directory, ADFS, SSO configuration, Azure Identity protection, Identity Management, O365 Identity, Azure MFA.
  - Experience supporting large and complex geographically distributed enterprise environments with 1000+ users
- Experience in one or more of these areas desirable
- Windows System Administration, Certificates, PKI, DNS, Networking, Virtualization, PowerShell scripting.
  - OS Internals concepts, load balancing, geo-redundancy, CDN and VPN technologies.

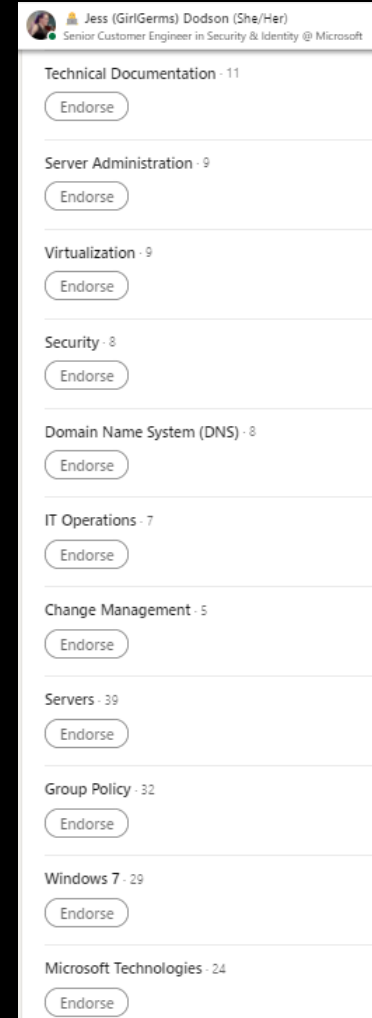


Skills section for Jess (GirGems) Dodson (She/Her), Senior Customer Engineer in Security & Identity @ Microsoft.

Skills listed with endorsement counts:

- Active Directory - 82
- Windows Server - 68
- System Administration - 58
- ITIL - 26
- System Deployment - 25
- Information Technology - 21
- DNS - 16
- Troubleshooting - 18
- DHCP - 11

Endorsement buttons are visible for each skill.



Technical Skills section for Jess (GirGems) Dodson (She/Her), Senior Customer Engineer in Security & Identity @ Microsoft.

Skills listed with endorsement counts:

- Technical Documentation - 11
- Server Administration - 9
- Virtualization - 9
- Security - 8
- Domain Name System (DNS) - 8
- IT Operations - 7
- Change Management - 5
- Servers - 39
- Group Policy - 32
- Windows 7 - 29
- Microsoft Technologies - 24

Endorsement buttons are visible for each skill.

What does the Job description ask for?  
Do the Skills on your LinkedIn match?




# Make it easy on hiring managers




### Skills

Take skill quiz

Public Speaking - 50  
 Endorsed by 10 colleagues at Microsoft

Linkedin - 25

Technology Evangelism - 31  
 Endorsed by 7 colleagues at Microsoft

See all 24 skills

Machine Learning - 1

 Passed LinkedIn Skill Assessment

Microsoft Azure Machine Learning - 3

Microsoft Azure - 3

 Passed LinkedIn Skill Assessment

Azure IOT - 3

Python (Programming Language) - 1

Do your skills match what they  
are asking for?

# What next



## Learn

Continually invest in you

- Microsoft Learn
- Microsoft Virtual Training Days
- Microsoft Student Accelerator
- Bootcamps
- Hackathons
- Challenges



## Certify

Prove your capability

- Microsoft Certifications
- Industry Certifications
- University Micro Credentials



## Promote

Amplify your skills

- LinkedIn Skills Section
- LinkedIn Certifications Section
- LinkedIn Education Section

# Resources

1	Create a Microsoft Learn Account	<a href="https://aka.ms/MSLearnID">https://aka.ms/MSLearnID</a>
2	Join the UWA Data Institute Upskilling Pathway and complete learning path	<a href="https://aka.ms/UWADI">https://aka.ms/UWADI</a>
3	Watch AI Fundamentals Exam Prep Class Playlist	<a href="https://aka.ms/AI900video">https://aka.ms/AI900video</a>
4	Ask for Exam Voucher	<a href="https://aka.ms/UWADI-AI900">https://aka.ms/UWADI-AI900</a>
5	Share Exam Success on LinkedIn and Tag Michelle and the UWA Data Institute	<a href="https://aka.ms/wellconnected">https://aka.ms/wellconnected</a>
6	Microsoft Student Accelerator (Join to Certify, Build and Connect with us)	<a href="https://aka.ms/MSA22-Rego">https://aka.ms/MSA22-Rego</a>
7	Make a video with Michelle	<a href="https://aka.ms/StudentChat">https://aka.ms/StudentChat</a>



Michelle Sandford  
Developer Engagement Lead

[www.linkedin.com/in/michellesandford/](https://www.linkedin.com/in/michellesandford/)

<https://github.com/codess-aus>

Twitter: @codess\_au

Instagram: @codess\_au

TikTok: @codess\_au

