

TAFE IAT Your Future in Cyber Security

TRANSCRIPT

(Uplifting music plays throughout)

DESCRIPTION:

A close-up of a scale model of a city.

A white box with navy text bears the NSW Government red 'waratah' logo and, the words Institute of Applied Technology Digital.

TEXT: Your future in cybersecurity.

DESCRIPTION:

A woman with long dark hair wearing a maroon suit talks to camera in front of the glass case that houses the scale model.

TEXT: Deepika Mahankali, Cybersecurity Solutions Engineer, Microsoft.

DEEPIKA:

Hi, my name is Deepika Mahankali and I work in cybersecurity.

My role in cybersecurity - Solutions Engineer at Microsoft.

You can think of my job as to help keep computers, applications and data, safe and protected from people who try to misuse or steal them.

DESCRIPTION:

Now a man with a bald head and full beard talks in front of a large exterior-facing window through which light floods. He wears a white blazer and white t-shirt.

TEXT: Montii Abid, Cybersecurity Consultant.

MONTII:

My name is Montii Abid and I'm a Cybersecurity Consultant.

I get to work with the latest and greatest in technology - work with different vendors, security solutions and products.

What that means is I get to explore the cool stuff, I get to break Things, fix them, find issues with them.

TEXT: The best part of working in cybersecurity.

DESCRIPTION:

Switching between Deepika and Montii.

DEEPIKA:

Being in cybersecurity is like being a detective, where you find clues and you're solving problems and you're stopping problems before they happen.

MONTII:

I love that each day is different and no two days are the same. It keeps it interesting, dynamic and fun.

DEEPIKA:

I love that cybersecurity is not just about protecting computers, it's actually about protecting real people from problems and keeping them safe.

TEXT: The most interesting project you've worked on.

DESCRIPTION:

Back to a still-smiling Deepika.

DEEPIKA:

One of the coolest projects I've worked on was one of my previous roles as a cybersecurity engineer. I was able to help hospitals stay safe. There was an attack being performed by hackers, where they were trying to overwhelm the systems.

It's also known as a DDoS - or Distributed Denial of Service attack.

DESCRIPTION:

A bird's eye view of a traffic backed up on in one direction and vehicles streaming past in the other.

DEEPIKA:

So you can think of it like a traffic jam where there are like fake vehicles trying to block the road so the real vehicles cannot get in.

DESCRIPTION:

Back to Deepika.

DEEPIKA:

So I was able to identify where the attack was coming on and put some policies in place to prevent that from happening and then restore access to the systems.

This is one of the coolest, as well as one of the most meaningful Projects I was able to work on because it was not just about systems, but it was about real people and helping them stay safe.

DESCRIPTION:

Back to Montii, who underlines his words' rhythm with hand gestures.

MONTII:

The coolest project I've had the opportunity to work on is the AnyTown City at TAFE Meadowbank.

DESCRIPTION:

Another close-up of the scale model city. A smiling lego man sits in a miniature hospital room. An illuminated big wheel rotates.

MONTII:

It's a physical city we've created with a digital underlay.

The city is connected with each other, the different components are connected - so the hospital there, the Ferris wheel, the airport, the nuclear reactor.

DESCRIPTION:

Back with Montii.

MONTII:

I had the opportunity to hack all the different components and bring them down.

The reason why we did this is to show people a - what can happen when things go wrong, and b - how we can defend against those type of attacks.

TEXT: Key skills for cybersecurity.

DESCRIPTION:

First Deepika in front of the glass-housed model city, then Montii in front of a large window.

DEEPIKA:

So, problem solving is one of the key skills that helps in cybersecurity.

The other skill would be coding, although you don't need to know full-fledged coding to be in cybersecurity.

But just knowing how the computers take instructions and function is a good skill to have so that if later on you need to trouble shoot - just understanding of how the underlying mechanism works is good to know.

MONTII:

Any tech hobby that you got - whether you're building a PC, connecting a network, helping your parents with technology, whatever it may be, is going to help you.

Being curious about technology, how it works, how things connect. Being confident in your decisions in what you do, in your approaches and experimentation, and critically, communication.

It's communicating with people, with stakeholders about technology - how it works and how it interconnects.

TEXT: Advice for young people considering cybersecurity careers.

DESCRIPTION:

First Deepika in front of the glass-housed model city, then Montii in front of a large window.

DEEPIKA:

Stay curious, don't be afraid to ask questions, keep learning new technology and you have an exciting career ahead of you.

MONTII:

Experiment more, try new things, try new jobs, try new courses. Enjoy what you do, stay curious and have fun.

DESCRIPTION:

On a dark-grey background, the NSW Government red 'Waratah' logo and further text that reads Institute of Applied Technology Digital.

END TRANSCRIPT