



Amazon Future Engineer

AWS Data Center Tour

# Key Student Learnings

career

tours

## \*/The Big Question/>

How does the internet allow me to stream a movie or play a game from anywhere, anytime?

Because your request travels through the internet to big computers (servers) in data centers. They quickly find the movie/game and send it back to your device through fast cables.

## \*/What We Explored/>

How do computers take input and give output?

A computer works like us, we give it an **input** (like pressing play), it **thinks** (processing), and then shows us an **output** (like the song or video).

Where is data stored today (CDs → data centers → cloud)?

Earlier songs and movies were stored on CDs. Today, they are kept in **servers inside data centers**, which act like giant libraries. The **cloud** lets us use this data from anywhere.

How do servers, cables, and the internet connect us?

**Servers** store and send data, **fiber optic cables** carry it as flashes of light, and the **internet** is the invisible network that delivers it to your phone or computer.

What kind of people and careers keep all this running?

**Hardware engineers** build servers, **technicians** repair them, **fiber splicers** join cables, and **network engineers** keep data flowing — real people who make sure the internet works for everyone.



## {Word Bank}

### **Input**

What you tell a computer to do (pressing play).

### **Output**

What the computer gives back (the song/video).

### **Processing**

The computer “thinking” about your request.

### **Storage**

Where data is kept (earlier CDs, now servers).

### **Server**

A powerful computer that stores and shares data

### **Data Center**

A building full of servers that keep data safe.

### **Protocol**

The “rules” computers follow to talk safely.

### **Internet**

The invisible connection that links devices worldwide.

### **IP Address**

A computer’s “house number” on the internet.

### **URL**

A web address you type to reach a site (like amazon.com).

### **Data Center**

A web address you type to reach a site (like amazon.com).

### **Fiber Optic Cable**

Thin glass wires that carry data as light, and very fast.

### **Cloud Computing**

Using servers in data centers so you can access data anywhere, anytime.



## {My Reflections}

**One new thing I learned:**

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**A career that inspired me:**

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**How I use the cloud every day:**

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## Career Spotlights {from the tour}

### Hardware Development Engineer

Designs and builds computer parts.

### Data Center Technician (DCO)

Keeps data centers running smoothly.

### AWS Fiber Technician/ Splicer

Connects fiber optic cables to carry data.

### AWS Data Center Network Engineer

Designs networks that connect computers globally.

Behind every click, stream, and message, there are people and technologies working together. You could be one of them!