

Amazon Future Engineer



Amazon Music:
Careers Behind the Beats

career

tours

Key Student Learnings

<The Big Question/>

How does your favourite song reach you the moment you press play?

Your favourite song reaches you because artists and record labels create and release music, Label Relations teams connect them with platforms like Amazon Music, engineers build the app, applied scientists power search and recommendations, and lawyers make sure the right permissions are in place.

*/What We Explored/>

How is an app built?

An app is a software program that helps users perform specific tasks. Building one takes many people working together, like an orchestra. A Product Manager decides what to build, a UI/UX Designer shapes how it looks, Frontend and Backend Engineers write the code, and a Technical Program Manager keeps the work on track.

Where do the songs on Amazon Music come from?

Songs come from artists and music labels. The Label Relations team acts as a bridge between record labels, artists, and Amazon Music, helping new music reach the platform smoothly.

How does the app find the right song even with a spelling mistake?

Machine learning helps the app learn from many examples and recognise patterns. So even when you spell a song name wrong, it can predict what you are looking for and find the right result. It can also learn from what you listen to and suggest similar songs you may like.

How does Amazon Music get permission to play songs?

Every song is owned by artists and music labels. Amazon Music needs a licence - formal permission from the song's owners - before it can be played. Corporate Lawyers manage this process and make sure all rules are followed.



{Word Bank}

App

An app is the short form of "application". It is a software program that helps users perform specific tasks on a device.

Label Relations

Label Relations is the process of managing and maintaining connections between record labels and the music platform to ensure music reaches listeners smoothly.

Machine Learning

Machine Learning is a technology where systems learn from data and improve their performance without being directly programmed for every task.

Licensing

Licensing is the process of taking permission from the owner to use their music under certain terms and conditions.

Record Label

A company that releases music for artists, handles recording, and manages promotions.

Streaming

Streaming is the process of playing music, video, or other content directly from the internet without downloading it first. The content plays as it arrives on your device.

Server

A server is a powerful computer that stores data and sends it to other devices over the internet. When you press play on Amazon Music, a server locates and delivers your song to you.



{Word Bank}

Feature

A feature is something useful an app can do, like search for a song, press play, pause music, or create a playlist.

Algorithm

An algorithm is a set of instructions a computer follows step by step to solve a problem or complete a task. In Amazon Music, an algorithm helps predict which song you are searching for, even if you spell it incorrectly.

Copyright

Copyright is the legal right that gives creators such as musicians and songwriters ownership over their work. It means others need permission before they can use, share, or play that music.

User Interface

A User Interface, or UI, is the visual part of an app that users see and interact with including buttons, screens, menus, and layouts. A UI/UX Designer is responsible for making it look good and feel easy to use.

Voice Search

Searching by speaking instead of typing.

Recommendation

A song or playlist suggested by the app based on what someone may like.



{My Reflections}

One new thing I learned:

How I use Amazon Music or any music app every day and why:

A career that inspired me and why?:



{Career Spotlight}

Product Manager

Decides what to build and how to improve the user experience.

UI/UX Designer

Designs screens so the app is easy and enjoyable to use.

Front-End Engineer

Makes the app's design come alive on your screen through code.

Back-End Engineer

Builds systems that find, stream, and deliver songs to millions of users at once.

Technical Program Manager (TPM)

Coordinates all teams and keeps technical work on schedule.

Applied Scientist

Trains AI and machine learning models that power search and personalised recommendations.

Label Relations Lead

Manages relationships between record labels, artists, and Amazon Music.

Corporate Lawyer

Ensures all song licensing is legally secured so music can be played on the app.

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