

## Section 1 – Setup Amazon Q Business

The screenshot shows the 'Applications' section of the Amazon Q Business console. It displays a single application entry:

Name	Created	Type	Index	Created	User account	Web experience	Web experience
CareerCoachAssistant	Created success	Native	Index n...	Aug 20, 20...	Authenticat...	Deployed suc...	https://w...

Below this, the IAM Identity Center Groups page is shown for the 'CareerCoaches' group. It lists two users assigned to the group:

Username	Display name	Status	Email
career.coach.one	Career Coach One	Enabled	qbusiness@vocareum.com
career.coach.two	Career Coach Two	Enabled	qbusiness_2@vocareum.com

## Section 2 – Create Application

Create basic application

**AI Powered Career Coaching Assistant App**

Analyzes CV vs job profile, finds skill gaps, and recommends training.

File  
Upload Resume/CV  
sample-cv-01.docx

File  
Upload Job Description  
sample-job-description-01.docx

Output  
Skill Gap Analysis

**Career Gap Analysis: Cloud Solutions Architect – Generative AI Position**

Job Description Summary

Key Responsibilities:

- Architect and design scalable Generative AI solutions on cloud infrastructure
- Engage with customers to translate business challenges into AI/ML solutions
- Develop best practices for AI model deployment including security and governance

Output  
Training Recommendations

**Tailored Learning Plan for Cloud Solutions Architect – Generative AI Position**

Run ▶ ↻ Reset

Based on the skill gap analysis, I've created a customized learning plan to help you prepare for the Cloud Solutions Architect – Generative AI role. Since I don't have access to specific course catalog data in this session, I'll provide recommendations based on commonly available courses that would address the identified

## Section 3 – Enhance your application

**AI Powered Career Coaching Assistant App**

Analyzes CV vs job profile, finds skill gaps, and recommends training.

File  
Upload Resume/CV  
sample-cv-01.docx

File  
Upload Job Description  
sample-job-description-01.docx

Text input  
Career Coach Notes / Recommendations  
learner only has 3 hrs. per week

Output  
Skill Gap Analysis

**Career Gap Analysis: Cloud Solutions Architect – Generative AI Position**

Job Description Summary

Output  
Training Recommendations

**Tailored Learning Plan for Cloud Solutions Architect – Generative AI Role**

Based on the skill gap analysis and the learner's limited availability (3 hours per week), I've created a focused learning plan that prioritizes the most critical skills needed for the target role.

High Priority Skill Gaps

Output  
Suggested Learning Schedule

**36-Week Study Schedule for Cloud Solutions Architect – Generative AI Role**

Run ▶ ↻ Reset

This personalized study schedule is designed for your limited availability of 3 hours per week, prioritizing high-impact skills first while ensuring a manageable and consistent learning pace.

## Solution exploration:

## Uploaded files Info

Uploaded files (8)				<a href="#">Delete files</a>	<a href="#">Add files</a>
<input type="checkbox"/>	Document name	Upload time	Upload status	Status details	
<input type="checkbox"/>	Medicine-Course-Catalog-C.pdf	Dec 06, 2025, 8:35 AM PST	Indexed	Ready to use as a source	
<input type="checkbox"/>	Additional-Course-Catalog-B.pdf	Dec 06, 2025, 8:32 AM PST	Indexed	Ready to use as a source	
<input type="checkbox"/>	Medicine-Course-Catalog-A.pdf	Dec 06, 2025, 8:32 AM PST	Indexed	Ready to use as a source	
<input type="checkbox"/>	Medicine-Course-Catalog-B.pdf	Dec 06, 2025, 8:32 AM PST	Indexed	Ready to use as a source	
<input type="checkbox"/>	Additional-Course-Catalog-A.pdf	Dec 06, 2025, 8:32 AM PST	Indexed	Ready to use as a source	
<input type="checkbox"/>	link-to-udacity-digital-training-catalog...	Dec 06, 2025, 8:32 AM PST	Indexed	Ready to use as a source	
<input type="checkbox"/>	course_access_acl.json	Dec 06, 2025, 8:32 AM PST	Indexed	Ready to use as a source	
<input type="checkbox"/>	Other Training Catalog URLs.txt	Dec 06, 2025, 8:32 AM PST	Indexed	Ready to use as a source	

## Data sources read:

AI Powered Career Coaching Assistant App

The screenshot shows the AI Powered Career Coaching Assistant App interface. At the top, there are two input documents: "sample-cv-01.docx" and "sample-job-description-01.docx". Below the inputs, the app displays the results of the analysis. The first result is titled "Skill Gap Analysis" and contains the heading "Career Gap Analysis: Cloud Solutions Architect – Generative AI Position". Under this, there is a "Job Description Summary" section. The second result is titled "Training Recommendations" and contains the heading "Tailored Learning Plan for Cloud Solutions Architect – Generative AI Role". It includes a note "(3 hours per week availability)". The third result is titled "High Priority Skill Gaps" and contains the heading "Suggested Learning Schedule". At the bottom of the interface, there are "Run" and "Reset" buttons.

## Section 4 – Tap into additional course catalog

### Created s3 bucket

**career4all-course-catalog-anandsr** [Info](#)

[Objects](#) [Metadata](#) [Properties](#) [Permissions](#) [Metrics](#) [Management](#) [Access Points](#)

**Objects (2)**

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

[Find objects by prefix](#)

<input type="checkbox"/> Name	Type	Last modified	Size	Storage class
<input type="checkbox"/> <a href="#">data/</a>	Folder		-	-
<input type="checkbox"/> <a href="#">link-to-udacity-digital-training-catalog.txt</a>	txt	December 6, 2025, 09:03:40 (UTC-08:00)	31.0 B	Standard

## Data source synced:

**Data sources** [Info](#)

[▶ How it works](#)

**Index**

Index name	Index provisioning	Index ID
CareerCoachIndex	1	69f4b537-481e-4db5-8f1d-ed9dd81fec15
Index status	Document count	Retriever ID
<a href="#">Active</a>	8	9f0bf64f-3c24-41a6-985f-8160bb0bf6a9
Last modified time	Storage used	Retriever
December 06, 2025, 09:08 (UTC-08:00)	919.24 KIB	Native retriever: Starter

**Data sources (2)** [Info](#)

[Search data sources](#)

Name	Source	Data source state	Last sync time	Last sync status	Current sync state	Access Control List
<a href="#">S3CourseCatalogs</a>	S3V2	<a href="#">Active</a>	-	-	Idle	-
<a href="#">Uploaded files</a>	FILE UPLOADER	-	-	-	-	-

**Index tags (4)** [Info](#)

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key	Value
aws:cloudformation:stack-name	c167542a4306627112970820t1w285573937591

## Setup daily sync:

[Sync history](#) [Troubleshooting tools - new](#) [Settings](#) [Tags](#)

**IAM role**

**IAM role ARN**  
arn:aws:iam::285573937591:role/QBusinessDataRole

**Sync scope**

<b>Data source bucket</b> s3://career4all-course-catalog-anandsr	<b>Account ID</b> 285573937591
<b>Access control list configuration</b> -	<b>Metadata files folder location</b> -
<b>Maximum single file size</b> 50 MB	<b>Document deletion safeguard</b> Off
<b>Multi-media content configuration</b> Text based content	
<b>Include/Exclude file patterns</b> Include and exclude documents from indexing.	

**Sync schedule**

**Sync run schedule (UTC)**  
At 05:09 PM

## Section 5 – Enhance security of your application

### Created access control list(ACL) and applied

The screenshot shows the AWS Sync configuration interface. Under 'Sync scope', the 'Info' tab is selected. The 'Enter the data source location' field contains 's3://career4all-course-catalog-anandsr'. The 'Maximum single file size' field is set to 50 MB. The 'Access control list (ACL) configuration file location - optional' field contains 's3://career4all-course-catalog-anandsr/data/Security/course\_access\_ad\_coach.json'. Below these fields, there are sections for 'Metadata files folder location - optional', 'Filter patterns - optional', 'Multi-media content configuration - optional', and 'Advanced Settings - optional'.

[

```
{  
    "keyPrefix": "s3://career4all-course-catalog-anandsr/data/Medicine",  
    "aclEntries": [  
        {  
            "Name": "career.coach.one",  
            "Type": "USER",  
            "Access": "ALLOW"  
        }  
    ],  
    {  
        "keyPrefix": "s3://career4all-course-catalog-anandsr/data/Medicine",  
        "aclEntries": [  
            {  
                "Name": "career.coach.two",  
                "Type": "USER",  
                "Access": "DENY"  
            }  
        ]  
    }  
}
```

#### Career-coach-two – Access:

- Before ACL applied:



show medical courses



#### Medical Courses Overview

The medical curriculum includes various courses across different semesters and specialties. In the third semester, students take Neuroscience and Neurology, which covers pathology, physiology, and structure of the brain, spinal cord, and nervous system. [\[1\]](#)

Evidence-Based Medicine is offered as part of the research curriculum, teaching students to develop clinical questions, search strategies, and critical appraisal of medical literature using online resources. [\[1\]](#)

Some medical schools require specific competencies in Biology (gene expression, cell structure, metabolism), Mathematics (statistics, data analysis), and Physics (mechanics, electricity, magnetism). [\[2\]](#) George Washington University recommends courses in Literature, Mathematics, and Physics. [\[2\]](#)

The University of Iowa requires two semesters of introductory Biology with labs plus an advanced course, three semesters of Chemistry including General and Organic with labs, two English courses, one advanced Mathematics or Statistics course, and two semesters of Physics with labs. [\[2\]](#)

Clinical Medicine curriculum consists of an eight-week research module followed by 72 weeks of clinical clerkships, including 42 weeks of required core rotations (Internal Medicine, Surgery,

Company knowledge

General knowledge

Ask a followup question

Plugins

Advanced search

Amazon Q Business uses generative AI. You may need to verify responses for accuracy. [AWS Responsible AI Policy](#)

- **After ACL applied:**



list down the medical courses



Based on the available course catalog information, there is only one medical-related course mentioned:

MED201: Material Science and Engineering (3-0-1, 4 credits), which appears in the First Semester curriculum with 20 credits. [1](#) This course is categorized under Engineering Sciences (ES). [1](#)

No other specific medical courses are found in the provided data source. The documents primarily contain information about Core Common Curriculum requirements, Computer Science courses, and basic curriculum structure at SNU.

[Events](#)

[Sources](#)



[1](#) [Additional-Course-Catalog-B.pdf](#) [2](#)

<https://career4all-course-catalog-anandsr.s3.us-west-2.amazonaws.com/data/Additional-Course-Catalog-B.pdf>

Updated December 6, 2025

## Keyword blocking - Guardrails applied for keywords:



What do you know about gambling?



I cannot complete this request as the response contains content that is blocked by your Admin.  
Please contact your Admin for help.



[Company knowledge](#)

[General knowledge](#)



[Ask a followup question](#)



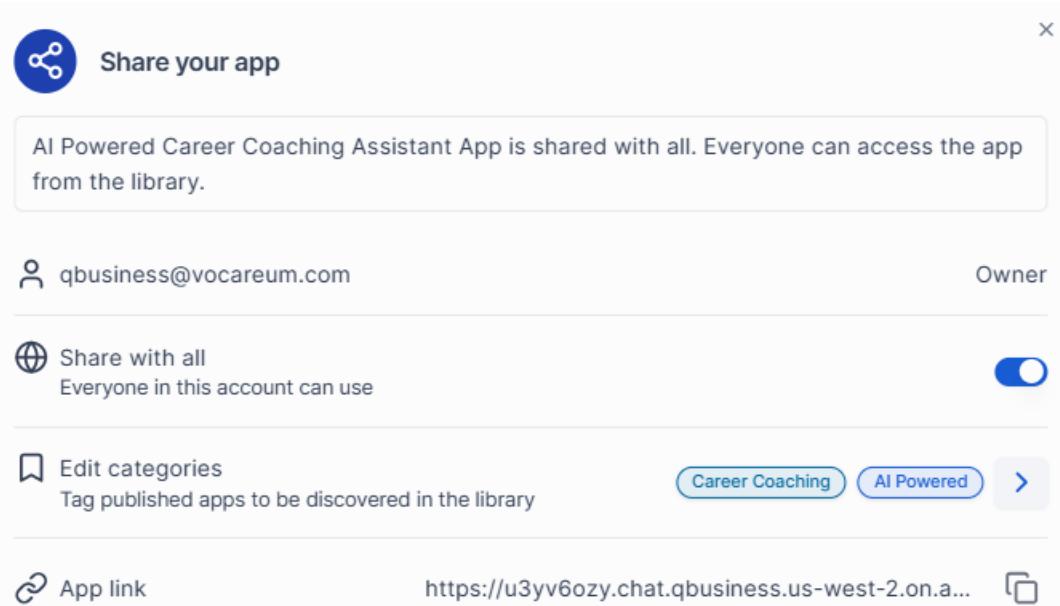
Plugins

Advanced search

Amazon Q Business uses generative AI. You may need to verify responses for accuracy. [AWS Responsible AI Policy](#)

aws

## Section 6 – Share your application



The screenshot shows the 'Q Business Library' interface. The title 'Q Business Library' is at the top center, with a sub-instruction 'Explore all that you can do with Q Apps and plugins to increase your efficiency'. Below the title are two buttons: 'Q Apps' (selected) and 'Plugins'. A navigation bar below the buttons includes 'All Apps' (selected), 'Legal', 'Marketing', 'Finance', 'Operations', 'HR', 'IT', 'Support', 'Career Coaching', 'Sales', and 'AI Powered'. Three cards are displayed under the 'Career Coaching' category:

- AI Career Coaching Assistant**  
1 user | Published on December 7, 2025  
AI-powered tool that analyzes skill gaps between your CV and job descriptions, then...  
Tags: Career Coaching, AI Powered  
Actions: Open
- Customer Complaint Response...**  
1 user | Published on December 5, 2025  
Generates a polite, professional response to customer complaints that can be read over the...  
Tags: Marketing, Operations, Support  
Actions: Open
- AI Powered Career Coaching Assista...**  
1 user | Published on December 6, 2025  
Analyzes CV vs job profile, finds skill gaps, and recommends training.  
Tags: Career Coaching, AI Powered  
Actions: Open