

# Online Portfolio and Career Development Platform for Students

Team-35

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# Introduction

## Project Description:

Students and recent graduates need to showcase their skills and academic projects to potential employers. An online portfolio and career development platform can provide them with the tools to build a professional online presence and connect with job opportunities.

- Welcome to a transformative journey in education and career advancement! In the dynamic landscape of learning and professional development, our Online Portfolio and Career Development Platform for Students stands as a beacon, guiding you towards success.

- As you embark on this digital voyage, prepare to unlock a world of opportunities, showcase your talents, and craft a compelling narrative that propels you towards a thriving future
- Your journey begins here – where innovation meets ambition, and potential transforms into achievement.
- Welcome to a platform that not only envisions your dreams but empowers you to turn them into reality.

# Project Objectives

1. **Skill Development:** Enhance and diversify students' skill sets through curated learning paths and hands-on projects.
2. **Career Exploration:** Provide tools and resources for students to explore various career paths, industries, and potential opportunities.
3. **Professional Networking:** Facilitate connections between students and industry professionals, fostering mentorship and collaboration.
4. **Portfolio Creation:** Assist students in building a robust online portfolio to showcase their achievements, projects, and skills to potential employers or collaborators.

- **Personalized Guidance:** Offer personalized career guidance and development plans based on individual strengths, interests, and goals.
- **Industry-Relevant Content:** Deliver up-to-date and industry-relevant content to ensure students are well-prepared for the demands of the current job market.
- **Job Placement Support:** Establish partnerships with companies and organizations to facilitate job placement opportunities for students completing the program.

- **Accessibility:** Ensure the platform is user-friendly and accessible to a diverse range of students, including those with varying levels of technical proficiency.
- **Measurable Outcomes:** Establish key performance indicators to measure the success and impact of the platform on students' career development and overall satisfaction.



# Project Scope

- The overarching goal of this project is to empower and equip students with the necessary skills, knowledge, and opportunities to navigate and succeed in their chosen career paths. Specifically, the project aims to:
- Bridge the Gap Between Education and Employment
- Cultivate a Future-Ready Workforce
- Promote Inclusivity and Diversity
- Encourage Lifelong Learning
- Drive Career Success

# Individual Contributions

- T Sai Naga Anirudh: Front end
- K Vamsi Krishna: SNS
- M Balaji Reddy: Lambda Function
- S Abhinav : S3 web hosting and storage



# Project Architecture

- **Amazon S3:** For hosting portfolios and resumes.
- **AWS Lambda:** To automate job alerts and portfolio updates.
- **Amazon SNS:** For communication with recruiters and notifications.

# Key Concepts

- Amazon S3 (Simple Storage Service):
- Significance: Amazon S3 is a highly scalable object storage service, and it's commonly used for storing and retrieving any amount of data. In the context of hosting portfolios and resumes, S3 can be used to store and serve static assets, such as HTML files, images, and documents.
- AWS Lambda:
- Significance: AWS Lambda is a serverless computing service that lets you run code without provisioning or managing servers. It can be used to automate job alerts and portfolio updates in response to specific events or triggers.

- Amazon SNS (Simple Notification Service):
- Significance: it provides a scalable and flexible platform for sending notifications to a distributed audience via various channels, facilitating real-time communication and alerts in your AWS architecture.

# Challenges and Solutions

- The major challenge was integrating a storage object or instance to the front end
- The addition of recipient mail account using SNS via Lambda function took longer than we expected

# Cost Analysis

- **S3:** Amazon Simple Storage Service 2000.0 Requests for free for 12 months as part of AWS Free Usage Tier (Global-Requests-Tier1)
- **SNS:** 1000.0 Notifications are always free per month as part of AWS Free Usage Tier (APPS3-DeliveryAttempts-SMTP)
- **Lambda:** 1000000.0 Request are always free per month as part of AWS Free Usage Tier (Global-Request)

# Security Measures

## Authentication:

- Students and recent graduates need to showcase their skills and Facilitate networking with industry professionals

## Data Protection:

- Secure Storage of files in S3
- Sensitive information through encryption, access controls, regular backups, and compliance with regulations to prevent unauthorized access and data breaches



# Lessons Learned

## Technical Insights:

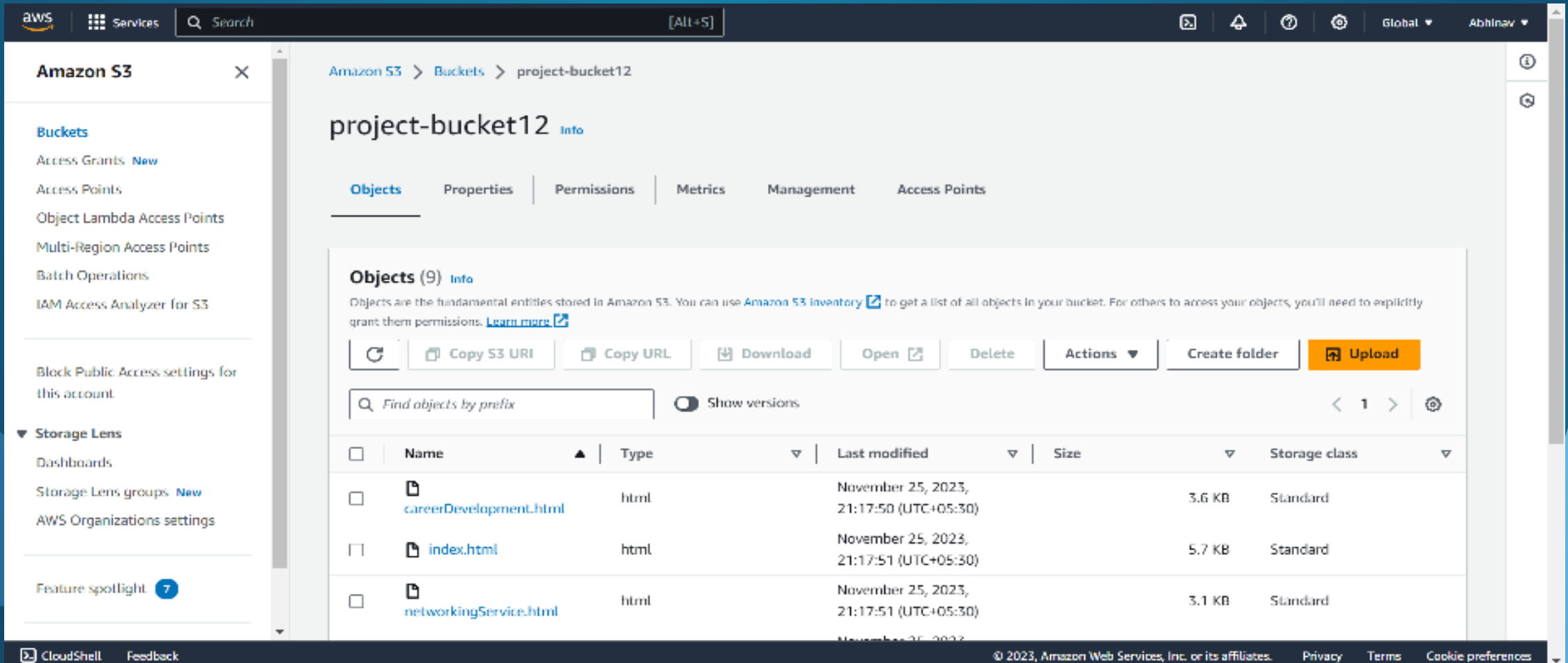
Integration of AWS and web client

Hands-on experience of using many complicated services

## Process Insights:

- Communication skills
- Time Management
- Task distribution

# Visual Screenshots



The screenshot displays the Amazon S3 console interface. The left sidebar shows the 'Amazon S3' menu with options like Buckets, Access Grants, Access Points, Object Lambda Access Points, Multi-Region Access Points, Batch Operations, IAM Access Analyzer for S3, Storage Lens, Dashboards, Storage Lens groups, and AWS Organizations settings. The main content area shows the 'project-bucket12' bucket with tabs for Objects, Properties, Permissions, Metrics, Management, and Access Points. The 'Objects' tab is active, displaying a list of 9 objects. The objects are listed in a table with columns for Name, Type, Last modified, Size, and Storage class. The objects are: careerDevelopment.html, index.html, and networkingService.html, all of type 'html' and stored in the 'Standard' storage class. The console also includes a search bar, a 'Show versions' toggle, and a 'Find objects by prefix' input field.

Amazon S3 > Buckets > project-bucket12

## project-bucket12 [Info](#)

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

### Objects (9) [Info](#)

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](#)

[Refresh](#) [Copy S3 URI](#) [Copy URL](#) [Download](#) [Open](#) [Delete](#) [Actions](#) [Create folder](#) [Upload](#)

☐ Show versions < 1 > [Settings](#)

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	<a href="#">careerDevelopment.html</a>	html	November 25, 2023, 21:17:50 (UTC+05:30)	3.6 KB	Standard
<input type="checkbox"/>	<a href="#">index.html</a>	html	November 25, 2023, 21:17:51 (UTC+05:30)	5.7 KB	Standard
<input type="checkbox"/>	<a href="#">networkingService.html</a>	html	November 25, 2023, 21:17:51 (UTC+05:30)	3.1 KB	Standard

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Dashboard

Topics

Subscriptions

▼ Mobile

Push notifications

Text messaging (SMS)

Origination numbers

Details

Name	Display name
project-portfolio	-
ARN	Topic owner
arn:aws:sns:ap-south-1:829882108879:project-portfolio	829882108879
Type	
Standard	

- <
- Subscriptions
- Access policy
- Data protection policy
- Delivery policy (HTTP/S)
- Delivery status logging
- Encryption
- Tags
- >

Subscriptions (1)

Edit

Delete

Request confirmation

Confirm subscription

Create subscription

Q Search

<

1


>

⚙

ID	Endpoint	Status	Protocol
<div><div></div><div><a href="#">e64f8cb2-750a-4bcd-8f0b-39b9...</a></div></div>	abhinavashok024@gmail.com	<div><div></div><div>Confirmed</div></div>	EMAIL

# SNS

Throttle

 Copy ARN

Actions ▼


▼ Function overview [Info](#)


Export to Application Composer

Download function

Diagram

Template

 SNS

 Layers (0)

 S3

+ Add trigger

+ Add destination


Description

-

Last modified

yesterday

Function ARN

 arn:aws:lambda:ap-south-1:829882108879:function:SNS

Function URL [Info](#)

-

- Code
- Test
- Monitor
- Configuration
- Aliases
- Versions

Code source [Info](#)

Upload from ▼

# Code source Info

Upload from ▾

File Edit Find View Go Tools Window

Test ▾

Deploy

Go to Anything (Ctrl-P)

lambda\_function ×

Environment Var ×

Execution results ×

+

Environment  
SNS - /  
lambda\_function.py

```

2
3 topic_arn = "arn:aws:sns:ap-south-1:829882108879:project-portfolio"
4 def send_sns(message, subject):
5     try:
6         client = boto3.client("sns")
7         result = client.publish(TopicArn=topic_arn, Message=message, Subject=subject)
8         if result['ResponseMetadata']['HTTPStatusCode'] == 200:
9             print(result)
10            print("Notification send successfully..!!!")
11            return True
12    except Exception as e:
13        print("Error occured while publish notifications and error is : ", e)
14        return True
15
16 def lambda_handler(event, context):
17     print("event collected is {}".format(event))
18     for record in event['Records'] :
19         s3_bucket = record['s3']['bucket']['name']
20         print("Bucket name is {}".format(s3_bucket))
21         s3_key = record['s3']['object']['key']
22         print("Bucket key name is {}".format(s3_key))
23         from_path = "s3://{}/{}".format(s3_bucket, s3_key)
24         print("from path {}".format(from_path))
25         message = "The file is uploaded at S3 bucket path {}".format(from_path)
26         subject = "Processes completion Notification"
27         SNSResult = send_sns(message, subject)
28         if SNSResult :
29             print("Notification Sent..")
30             return SNSResult
31         else:
32             return False

```

# Processes completion Notification Inbox x



**AWS Notifications** <no-reply@sns.amazonaws.com>

Tue, 28 Nov, 15:16 (1 day ago)



to me ▼

The file is uploaded at S3 bucket path s3://project-bucket12/survey.csv

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If you wish to stop receiving notifications from this topic, please click or visit the link below to unsubscribe:

<https://sns.ap-south-1.amazonaws.com/unsubscribe.html?SubscriptionArn=arn:aws:sns:ap-south-1:829882108879:project-portfolio:e64f8cb2-750a-4bcd-8f0b-39b99d8034c9&Endpoint=abhinavashok024@gmail.com>

Please do not reply directly to this email. If you have any questions or comments regarding this email, please contact us at <https://aws.amazon.com/support>

↩ Reply

➦ Forward



# Future Scope

- Improvements: Potential updates or add-ons.
- Interactive Learning Modules: Introduce engaging learning segments for skill development.
- Enhanced Networking Features: Facilitate connections with professionals and industry experts.
- Virtual Recruitment Events: Host virtual career fairs and job recruitment activities within the platform.
- Next Steps: Future phases or expansions.
  - Personalized Learning
  - Support Feature
  - Ecosystem Collaboration with educational institute students.

# Online Portfolio and Career Development Platform for Students

<http://project-bucket12.s3-website.ap-south-1.amazonaws.com>

# Screenshots of Online Portfolio

## Your Career Journey Starts Here

Empowering individuals with the tools and resources for a successful career.

[Get Started](#)

# Screenshots of Portfilio Creation

## Portfolio Creation

Email:

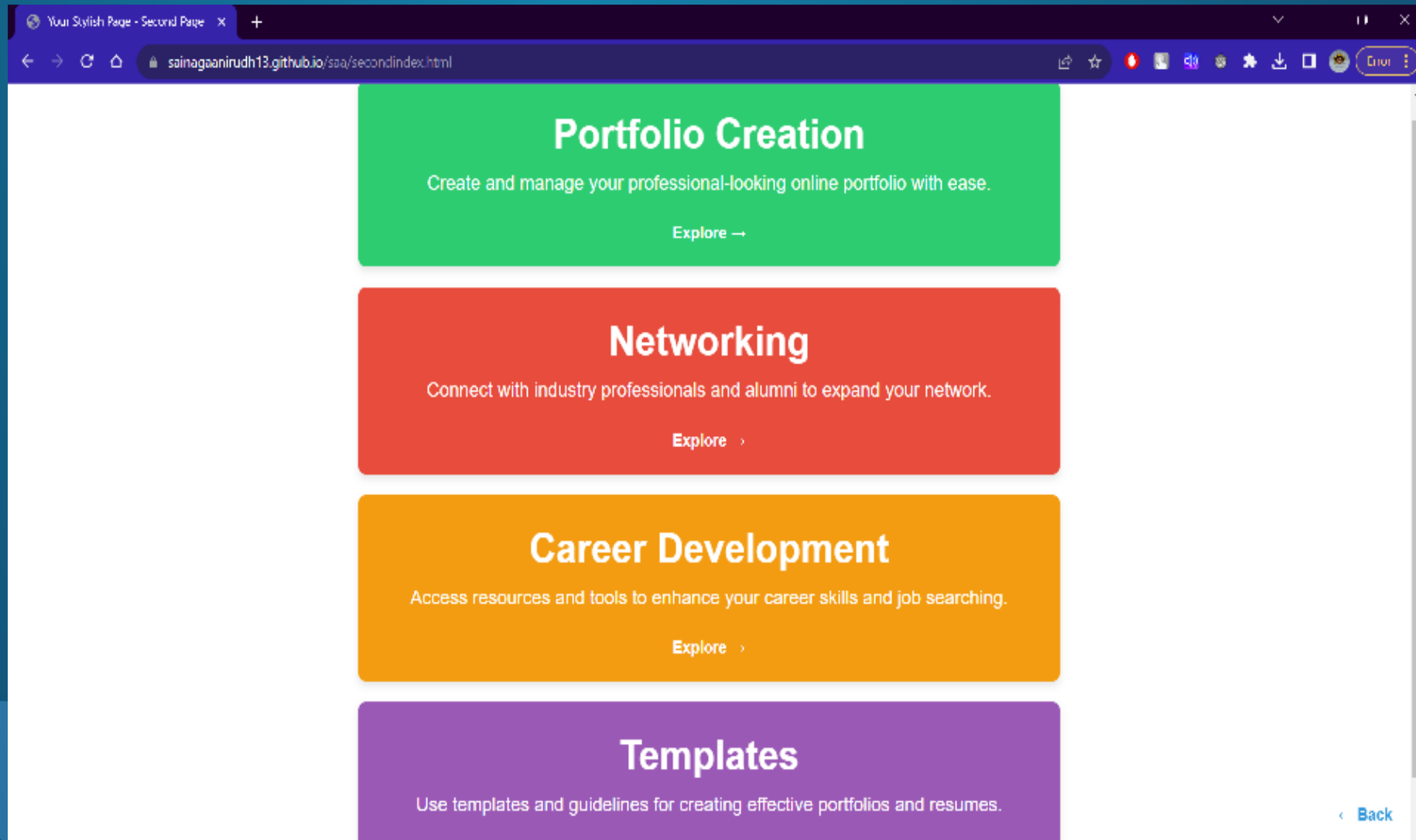
Education:

Projects:

Skills:

Certifications:

# Screenshots of Online Portfolio



# Screenshots of Career Development

## Online Courses and Tutorials

Explore a variety of online courses and tutorials to enhance your skills and knowledge.

## Skill Assessment Tools

Identify your strengths and areas for improvement with our skill assessment tools.

## Resume Writing Guides

Create effective resumes and cover letters with our helpful guides and templates.

## Interview Preparation

Get ready for interviews with our tips, common questions, and mock interview platforms.

## Networking Strategies

Learn effective networking strategies both online and offline to expand your professional connections.

## Job Search Platforms

Optimize your job search with links to popular job search websites and platforms.

[← Back](#)



# Screenshots of Networking

LinkedIn Profile

Upcoming Networking Events

Connect with Alumni

Industry News and Updates

Discussion Forums

Networking Tips and  
Resources

Recommendations and  
Endorsements

Connection Suggestions

Privacy Settings

**Questions:**

**Opening the floor for any questions from the audience.**

# Thank You!

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