

## Question 9: Professional Development Plan

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Portfolio URL	<a href="https://lms.griffith.edu.au/eportfolios/1238/Home/7610ICT">https://lms.griffith.edu.au/eportfolios/1238/Home/7610ICT</a>

### Current Strengths, Skills and Competencies

1	Have experience in frontend development
2	Understand the concepts of some cloud services (AWS)
3	Have a general understanding in system architecture and application structure
4	Have a general understating in ethical governance framework
5	

### Professional Development Goals

1	Have ability to design a website with high performance, reliability and scalability.
2	Have ability to build infrastructure on AWS and integrated it into applications.
3	Have ability to design system architecture in a really detailed way.

### 1 Objective or Area of Focus

Design high-performance, reliable, and scalable websites

### Action Steps

Deepen knowledge of frontend optimization techniques (e.g. lazy loading, CDN)  
Study caching strategies (with Next.js which is a framework I usually use to build websites)

### Timeline/Deadline(s)

November 2024 to December 2024

### Support Resources Needed

Next.js Documentation  
Stack Overflow  
YouTube

### How Success Will Be Measured

Use the website analysis tool “*PageSpeed Insights*” to test my website, enter the URL of a website and it will generate an overall performance report for you.

Link: <https://pagespeed.web.dev/>

<b>Specific</b>	Improve web design using optimization techniques and scalable architectures.
<b>Measurable</b>	Reduce page load time by 50% and improve the score of accessibility to 90.
<b>Achievable</b>	Through learning and testing on a real project.
<b>Relevant</b>	It will bring me to the next level of web development.
<b>Time-bound</b>	Complete in 2 months.

## 2 Objective or Area of Focus

Build and integrate infrastructure on AWS into applications

### Action Steps

Have deep understanding of the services I want to use (S3 bucket, Route 53, EC2...)

Design the architecture of the application

Build the application

Integrate the cloud services into my application

Deploy my application

### Timeline/Deadline(s)

November 2024 to January 2025

### Support Resources Needed

AWS documentation

YouTube videos

### How Success Will Be Measured

If success, my application should work well. And I can ask professional system engineers for some advices.

<b>Specific</b>	Learn AWS services and deploy a web application with AWS integration.
<b>Measurable</b>	Deploy an app using at least 3 AWS services.
<b>Achievable</b>	With YouTube tutorials and hand-on project.
<b>Relevant</b>	I can put the project on my resume in the future.
<b>Time-bound</b>	In 3 months.

## 3 Objective or Area of Focus

Design system architecture in a detailed way

### Action Steps

Study system architecture patterns

Practice creating architecture of application

### Timeline/Deadline(s)

November 2024 to February 2024

Support Resources Needed
Content of this course YouTube tutorials Paid tutorials on Udemy
How Success Will Be Measured
I will have the AWS Certified Solutions Architect exam before trimester 1 in 2025, if I pass, I will deem the plan as success.

<b>Specific</b>	Learn architecture patterns.
<b>Measurable</b>	Pass AWS Certified Solutions Architect exam.
<b>Achievable</b>	I can afford to pay 20 dollars buying a course on Udemy, and there are still many free resources on the Internet.
<b>Relevant</b>	The AWS certifications are always authoritative in IT industry, it can help me have higher opportunity to land a job after I graduate from university.
<b>Time-bound</b>	In 3~5 months.