# Question 9: Professional Development Plan

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| 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 |
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| 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. |

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| 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/> |

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

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| 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. |

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

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| 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 seem the plan as success. |

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| Specific | Learn architecture patterns. |
| Measurable | Pass AWS Certified Solutions Architect exam. |
| Achievable | I can afford to pay 20 dollars buying a course on Udemy, and there are still many free resources on the Internet. |
| Relevant | 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. |
| Time-bound | In 3~5 months. |