



Research Paper

# Cloud Computing and Accounting Information System Graduates' Career Flexibility: Basis for Cloud Tools Utilization

Ceria, Abigail A.  
Betuin, Lalaine Luz S.  
Vereña, Alaiza Joy P.  
Paylado, Jayrome S.  
Burgos, Samantha E.

Co-Author:

Dr. Norayda M. Dimaculangan

Department of Accounting Information System

Laguna University, Santa Cruz, Laguna, Philippines

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**Abstract.**

Technology is essential for students as it enables independent study and enhances creativity in using technical resources. As technology usage increases, individuals understand its value in their careers. Acquiring necessary technical skills through college or training courses ensures future job compatibility, meets job demands, and enhances company effectiveness and productivity, resulting in a well-rounded and efficient workforce.

Accounting  
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In this correlational study, the reliability and predictive validity of cloud computing tools used and the career flexibility of Accounting Information System graduates from Laguna University were investigated. Data gathered through a survey questionnaire emphasized the importance of correlational research in examining these variables. The study revealed a significant correlation between cloud computing awareness and career flexibility among Accounting Information System graduates which resulted in a p-value of 0.00001. This underscored the importance of incorporating cloud-related skills into professionals' skillsets, providing a competitive edge in creating flexible professional paths and enhancing flexibility in their professional careers.

The findings suggested that integrating cloud-related skills into professional competencies can enhance career flexibility, adaptability to change, and overall satisfaction. Based from this, the researchers offered several recommendations such as the expansion of future graduates' comprehension of cloud computing, the adoption of cloud services by business entities, and the implementation of a proposed training program for the utilization of cloud computing tools.

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E-mail addresses: [noriedimaculangan1955@gmail.com](mailto:noriedimaculangan1955@gmail.com)

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## I. Introduction

In today's educational landscape, technology plays a crucial role in empowering students to study independently and creatively. With advanced devices and applications, students can enhance efficiency and develop a deeper understanding of technology's significance in future careers. Laguna University's Bachelor of Science in Accounting Information Systems program exemplifies this focus on preparing students for evolving job demands.

However, beyond technical skills, graduates need adaptability to navigate the dynamic job market successfully. This study aims to explore the potential correlation between cloud computing and career flexibility. Cloud computing has transformed business operations, highlighting the need for individuals who can leverage its capabilities effectively.

By investigating this correlation, researchers hope to shed light on the relationship between technological advancement and workforce adaptability. Understanding how proficiency in cloud computing relates to graduates' ability to navigate diverse career pathways can inform educational strategies to better prepare students for tomorrow's workforce.

## II. Theoretical background

Tornatzky and Fleischer's TOE Framework elucidates the innovation process, detailing how technological, organizational, and environmental factors within firms shape the adoption of innovations. Cloud computing's effectiveness lies in its ability to simplify tasks through accessible storage for resources, enhancing efficiency and effectiveness. Krumboltz's Social Learning Theory emphasizes the role of genetic attributes, environmental conditions, learning experiences, and task approach skills in career decision-making. Task approach skills, encompassing problem-solving and adaptability, are crucial for career flexibility. Individuals with diverse experiences are better positioned to navigate changing job markets, aided by the adoption of cloud computing services.

Savickas' Career Construction Theory (CCT) emphasizes the importance of individuals' past and present circumstances in shaping their career decisions and adaptation processes. It highlights career adaptability as a dynamic process individuals use to navigate various career transitions, including the transition from school to work. By integrating CCT with Tornatzky and Fleischer's theory on cloud computing and Krumboltz's perspective on career flexibility, researchers explore how technological advancements, particularly the adoption of cloud computing, enhance individuals' capacity for flexible career pursuits.

## III. Research Problems and Hypothesis

The study aimed to investigate how cloud computing influences career flexibility among Bachelor of Science in Accounting Information System graduates from Laguna University. It focused on assessing respondents' awareness of cloud computing and their perception of its relationship with career flexibility. Specifically, it sought to determine the extent of awareness regarding service capability, innovation capacity, and cloud service availability, as well as perceptions regarding adaptability to change, managing unexpected incidents, and career satisfaction. The hypothesis proposed that there is no significant relationship between cloud computing and the career flexibility of BSAIS graduates at Laguna University.

## IV. Data and methods

The study utilized a correlational research design to assess the reliability and predictive validity of cloud computing tools among 59 Bachelor of Science in Accounting Information System (BSAIS) graduates from Laguna University, Santa Cruz, Laguna. Data were collected using a research questionnaire as the main instrument. The responses were evaluated using a 4-point Likert Scale, and Tables 1 and 2 present a detailed breakdown of the respondents' perspectives. These tables offer valuable insights into the measured variables, enhancing the overall robustness of the study's findings.

**Table 1.** Basis for understanding the extent of respondents' awareness of cloud computing

SCALE	RANGE OF VALUES	EXPLANATION
4	3.25 - 4.00	Extremely aware
3	2.50 - 3.25	Aware
2	1.75 - 2.50	Not aware
1	1.00 - 1.75	Completely not aware

**Table 2.** Basis for understanding the respondents' perceptions towards the relationship between cloud computing and career flexibility

SCALE	RANGE OF VALUES	EXPLANATION
4	3.25 - 4.00	Strongly agree
3	2.50 - 3.25	Agree
2	1.75 - 2.50	Disagree
1	1.00 - 1.75	Strongly disagree

## V. Results

Table 3 shows the extent of the respondents' awareness pertaining to cloud computing, with a specific emphasis on its indicators: service capability, innovation capacity, and cloud service availability.

**Table 3.** The extent of the respondents' awareness towards cloud computing

EXTENT OF AWARENESS	WEIGHTED MEAN	INTERPRETATION
Service capability	3.50	Extremely aware
Innovation capacity	3.52	Extremely aware
Cloud service availability	3.37	Extremely aware
<b>Total</b>	<b>3.46</b>	<b>Extremely aware</b>

The overall weighted mean, computed at 3.46, classifies the awareness level as Extremely Aware which consistently corresponds with the interpretation of each individual cloud computing indicator. These findings emphasize a heightened level of awareness among respondents, providing insights into the nuanced aspects of service capability, innovation capacity, and cloud service availability within their collective comprehension of cloud computing. Furthermore, with an overall weighted mean of 3.50, it is clear that respondents demonstrated a high level of awareness about cloud computing's service capability especially in gaining competitive advantage, providing access to services, scaling company resources based on demand, and enabling the company's global presence. The exceptionally high weighted mean of 3.52, reflected the respondents' awareness of cloud computing's innovative capacity not only demonstrates a broad understanding of the technology, but also indicates a readiness to leverage its capabilities for transformative purposes across diverse sectors and industries. Because of this increased understanding, the response cohort is a prospective target audience for initiatives trying to enhance technical innovation through cloud computing solutions. Respondents showed a strong awareness of cloud computing's service availability, with an aggregate weighted mean of 3.37, indicating a high level of understanding. This underscores the significance of cloud computing in adapting and optimizing user interactions for performance and service recovery, highlighting its importance in today's evolving technological landscape.

Table 4 shows the respondents' perceptions towards the relationship between cloud computing and career flexibility in terms of its indicators: adaptability to change, managing unexpected incidences, and career satisfaction.

**Table 4.** The respondents' perceptions towards the relationship between cloud computing and career flexibility

PERCEPTION ON CAREER FLEXIBILITY	WEIGHTED MEAN	INTERPRETATION
Adaptability to change	3.42	Strongly agree
Managing unexpected incidences	3.37	Strongly agree
Career satisfaction	3.44	Strongly agree
<b>Total</b>	<b>3.41</b>	<b>Strongly agree</b>

The overall weighted mean is 3.41, which falls into the category of Strongly Agree, which is consistent with the interpretation of all cloud computing indicators. The significant agreement seen among participants strongly suggests that cloud computing has a favorable influence on critical areas of their career flexibility. These findings, based on the participants' viewpoints, considerably improve our understanding of the manner in which cloud computing relates with their adaptability to change, managing unexpected incidences, and career satisfaction.

Participants widely concurred that cloud computing greatly boosts their adaptability in professional endeavors, covering assimilation of new settings, managing rising responsibilities, staying abreast of trends, and responding to evolving workplace processes and technologies. Respondents strongly agreed on the positive impact of cloud computing on their job flexibility amidst unforeseen events, reflected in an overall weighted mean of 3.37. This encompasses managing system issues, preventing data loss, reducing operational risks, filling work gaps, and maintaining secure data storage. A strong agreement was found among respondents regarding the impact of cloud computing on career satisfaction, with a weighted mean of 3.44, indicating a favorable impact on job satisfaction. Cloud computing enhances professional accomplishment, improves proficiency, and integrates personal interests, resulting in less stress and greater freedom.

As per the data presented in Table 5, there is a correlation between cloud computing awareness and the career flexibility of the respondents.

**Table 5.** The relationship between cloud computing and career flexibility

VARIABLES		r VALUE	P VALUE	INTERPRETATION	DECISION
Cloud Computing (x)	Career Flexibility (y)	0.6946	0.00001	Moderately Positive	Significant

Legend: +/- 0.00 to 0.30 — Very low positive (or negative) correlation  
 +/- 0.30 to 0.50 — Low positive (or negative) correlation  
 +/- 0.50 to 0.70 — Moderately positive (or negative) correlation  
 +/- 0.70 to 0.90 — High positive (or negative) correlation  
 +/- 0.90 to 1.00 — Very high positive (or negative) correlation  
 Decision:  $p < 0.05$  — Significant

The correlation coefficient, or r value, is 0.6946, indicating a moderately positive correlation. This implies that individuals who have a good understanding of cloud computing, including its various aspects like service capability, innovation capacity, and service availability, are more likely to have enhanced career flexibility. Additionally, the table demonstrates the statistical significance of the correlation. The study's null hypothesis asserted that there was no significant correlation between cloud computing and the career adaptability of graduates with a bachelor's degree in accounting information systems from Laguna University. When testing the correlation, it was observed that the findings yielded a remarkably low p-value of 0.00001, which was significantly lower than the predetermined alpha level of 5%. This led the researchers to reject the hypothesis. Therefore, the findings strongly support the assertion that there is indeed a substantial and meaningful relationship between the level of cloud computing awareness and the career flexibility exhibited by the Bachelor of Science in Accounting Information Systems graduates of Laguna University.

The study revealed a significant positive correlation between respondents' awareness of service capability, adaptability to change, ability to manage unexpected incidents, and career satisfaction, indicating that higher awareness leads to better adaptability, better incident management, and increased career satisfaction. The capacity of cloud computing favorably correlates with career flexibility, indicating that increased awareness of its innovation capacity leads to better adaptability to changes, effective management of unexpected incidents, and increased career satisfaction. Overall, this suggested that a strong understanding of cloud service availability enhances various aspects of career flexibility.

## **VI. Conclusions**

The following conclusions are based on the findings of the study:

1. Respondents exhibit high awareness of cloud computing across its fundamental capabilities, innovation potential, and broad service availability, indicating readiness for its current and future applications.
2. Cloud computing positively correlates with career flexibility, enhancing adaptability to change, incident management, and career satisfaction, attributed to its scalability, cost-effectiveness, and accessibility.
3. Rejecting the null hypothesis, the study confirms a significant relationship between cloud computing and career flexibility. Cloud computing knowledge is linked to increased career flexibility among respondents, highlighting its importance in shaping professional adaptability.

## **Reference**

- [1]. Krumboltz, J. D. (1975). A SOCIAL LEARNING THEORY OF CAREER SELECTION. American Institutes for Research, 101-107.
- [2]. Savickas, M. L. (2020). Career Construction Theory and Counseling Model. In C. D. Work, Steven D. Brown; Robert W. Lent (pp. 165-167). New Jersey: John Wiley & Sons, Inc.