

TIM-8101 V3: Principles of Computer Science (1389124895)







Grades



Add to ePortfolio

Final Adjusted Grade

Points

96.66 / 100



Grade

Α

Grade Item	Points	Grade	Feedback
Week 1 - Assignment: Write a Report on 5G Emerging Technology	13.13 / 15	B+	Assume that you work for a company that creates Android devices. This organization is in the process of making all devices compliant with the new 5G technology. Based on this week's readings and additional research, prepare a report on your findings. Your submission should be in two forms: A) A short written report; B) Poster
			Part A: Written Report (10 points)
			First, create a comprehensive report on your findings. This report should be scholarly as well as professional and contain the following: • Detail the findings of this week's readings as well as those from your
			research. • Identify the process used in each resource.

- Predict future work to be conducted in this area.
- Provide the reader the necessary background knowledge on this topic.
- Do you agree or disagree with the works' primary findings? Explain your answer and provide examples as necessary.

Support your assignment with at least five scholarly resources. In addition to these specified resources, other appropriate scholarly resources, including older articles, may be included.

Length: 8-10 pages, not including title and reference pages

Your assignment should demonstrate thoughtful consideration of the ideas and concepts presented in the course by providing new thoughts and insights relating directly to this topic. Your response should reflect scholarly writing and current APA standards. Be sure to adhere to Northcentral University's Academic Integrity Policy.

Part B: Poster (5 points)

For this second part of the deliverable, create a poster that you would present to your colleagues on your findings from this work. Your poster should include:

- Properly demonstrate the findings of the paper (Part A).
- Illustrate the process used.
- Detail future work to be conducted in this area.
- Provide the reader the necessary background knowledge on this topic.

When creating your poster, please use the week's resources as a guideline.

Support your assignments with at least five scholarly resources. In addition to these specified resources, other appropriate scholarly resources, including older articles, may be included.

Part A Length: 8-10 pages, not including title and reference pages

Part B Length: 1 poster

Your assignments should demonstrate thoughtful consideration of the ideas and concepts presented in the course by providing new thoughts and insights relating directly to this topic. Your response should reflect scholarly writing and current APA standards where appropriate. Be sure to adhere to Northcentral University's Academic Integrity Policy.

Upload your files and click the *Submit to Dropbox* button.

Very nice work on your poster. It was visually appealing while covering the required content for the assignment. While reading your paper, I noticed that you placed citations after almost every sentence in your writing. While citations are necessary, please keep a good balance between using them and providing the reader with your own original thoughts and ideas. Also, remember to proofread. I ran across a few typos and grammatical errors.

Week 2 -Assignment: Explore Data Analysis 10 / 10 A Individual Feedback

The collection of data has changed not only the way which we live and work, but also how we communicate. Social media generates tremendous amounts of data which are used from everything from advertising to urban planning.

Your assignment for the week is to perform a brief analysis on the Facebook data provided by Leskovec. Your analysis should include the following:

- Explain how the data were created.
- Determine weaknesses/areas of improvement in the data.
- Identity what research is based off this data.
- Predict what future research could be based off of this data.
- Summarize how the data are structured/stored.

Your submission should also include a brief sample research area in which the information could be used. In short, you should actually perform a study using this data. However, for

this sample exercise, it may be kept brief (1-2 pages of the final assignment submission).

Support your assignment with at least five scholarly resources. In addition to these specified resources, other appropriate scholarly resources, including older articles, may be included.

Total Length: 8-10 pages, not including title and reference pages

Your assignment should demonstrate thoughtful consideration of the ideas and concepts presented in the course by providing new thoughts and insights relating directly to this topic. Your response should reflect scholarly writing and current APA standards. Be sure to adhere to Northcentral University's Academic Integrity Policy.

Upload your document and click the *Submit to Dropbox* button.

Excellent work on parts A and B of this assignment. I appreciate that you applied my previous feedback to this assignment. Nice work.

Week 3 -

10 / 10

A Individ

Individual Feedback

This week, you read about sequence template classes. Your assignment for the week is to create a report on this useful class in which you will describe the following:

- 1. What are template classes? (1 page)
- 2. Where are they used? Include a realworld example. (1 page)
- 3. What are some benefits and drawbacks of using template classes? (1 page)
- 4. What are some alternatives to template classes, and where/when would you use them? (1 page)
- 5. Create a small code example template classes in a language of your choice (must not be a copy/paste example from the web). Place comments at every line of the code describing what it does. (Note: The comments do not count toward code length limit.)
- 6. What research has been conducted using template classes? (1 page)

A .

Assignment:

Analyze

Sequence

Template

Class

7. What is some future research you can envision using template classes? (1 page)

Your submission should be at least 6 pages. All writings must be formatted properly, and must have a logical flow and transition between them. The final submission must be in APA format and contain a title page, table of contents, and reference list. You are encouraged to use a tool such as EndNote or Bibtex to assist with the citation process.

Upload your document and click the *Submit to Dropbox* button.

Excellent work on both parts of this assignment. I like your Mad Libs comparison.

Week 4 -

10 / 10

A Individual Feedback

Assignment:

Analyze

Programming

Languages

Part A: Understanding C++ (5 points)

For the first part of the assignment, answer the following questions based on this week's reading (1 page for all three answers):

- 1. What are machine and assembly languages? What are their major features and components, and what problems do they typically address?
- 2. Where is C++ used in the real world, and where it is not used? Briefly describe how it compares to other popular languages.
- 3. What is the purpose of a compiler, and how does it compile a C++ program? Include a diagram to describe your work.

Part B: C++ in Research (5 points)

For the second part of the assignment, you will examine some current research being done on C++, or where C++ formed the basis of the research. Using the NCU Library, find a recent work (less than two years old) from a peer-reviewed source that has conducted work on C++. Briefly (3 pages) describe:

- 1. How did C++ fit into the research?
- 2. What were the research questions?
- 3. What did the authors find?
- 4. What is some future work which could be built upon this research? Include both

- what the authors found, and describe things in your own words.
- 5. What are some similar/contrasting works and their findings?

Length: At least 5 pages, not including title and reference pages

Your submission should contain references to at least 5 peer-reviewed sources. All writings must be formatted properly, and must have a logical flow and transition between them. The final submission must be in APA format and contain. a title page, table of contents, and reference list. You are encouraged to use a tool such as EndNote or Bibtex to assist with the citation process.

Upload your document and click the *Submit to* Dropbox button.

Thank you for submitting the assignment for week 4. I'm glad that you found some of the material interesting. You did a really good job on both parts of this project. Nice work this week!

Week 5 -

9.2 / 10

A-

Individual Feedback

For each of the above referenced top conferences (ICSE, MSR, FSE, ASE, ISSTA), write a summary of the following details:

- 1. Describe the types of papers presented/research conducted at these venues.
- 2. Each conference is comprised of several tracks. Describe each track and types of papers that are submitted to each track.
- 3. Find three full papers presented in each conference, and write a report about each addressing:
 - a. What problems do they solve?
 - b. What was their methodology?
 - c. What are areas of future work/improvement?
 - d. What are some related works, and how does this paper build upon the body of knowledge of those works?
 - e. In your own words, describe why each work is important.

Assignment:

Review and

Analyze

Conference

Venue

Review

Length: 8 – 10 pages not including title page and references. When necessary, you may use external citations to back up your assertions. There is no limit on the number of external citations you must use.

Your essay should demonstrate thoughtful consideration of the ideas and concepts that are presented in the course and provide new thoughts and insights relating directly to this topic. Your response should reflect graduate-level writing and APA standards. Be sure to adhere to Northcentral University's Academic Integrity Policy.

Upload your document and click the *Submit to Dropbox* button.

Thank you for your submission. While you did address all of the required points for this assignment, your paper should be written in an essay form rather than question/answer format.

Week 6 -

9.33 / 10

Α-

Individual Feedback

Assignment: Examine Ethical Challenges for AI in the Real World

Al is a fast-changing field with not only a diverse set of challenges, but also an equally diverse set of opportunities. Many of these challenges are not technical but ethical.

The authors of this week's resources discuss research. Prepare a report to include the following:

- Determine the controversial area of research.
- Explain why it is controversial, providing examples to support your thoughts.
- Analyze the discussions that are taking place to address these controversies. What

- solutions are being presented by experts in the field?
- What do you believe will be the ultimate resolution to these controversies? Explain your selection(s) in detail.
- What current research is being done in this area, and what are future avenues for research? Identify any gaps in the research that you see based on your research and readings.

Support your assignment with at least five scholarly resources. In addition to these specified resources, other appropriate scholarly resources, including older articles, may be included.

Length: 5-7 pages, not including title and reference pages

Your assignment should demonstrate thoughtful consideration of the ideas and concepts presented in the course by providing new thoughts and insights relating directly to this topic. Your response should reflect scholarly writing and current APA standards. Be sure to adhere

to Northcentral University's Academic Integrity Policy.

Thank you for you submission. I appreciate that you utilized my previous feedback. Overall, nice work on this assignment, as you made some very valid points in your writing. I would have liked to have seen coverage of one specific topic regarding ethical concerns surrounding AI and the controversies associated with that topic. (see instructions pertaining to one controversial area of research).

Week 7 -

Assignment:

Explore

Cloud

Computing and E-Health

15 / 15

Α

Individual Feedback

While cloud computing offers numerous possible benefits, it does pose many challenges. One of these challenges is in the security. Your task for the week is to imagine that you work for an e-health organization, and you are considering moving your information to the cloud. You should make a recommendation for the organization moving the e-health data for to the cloud. Your recommendation should come in the form of two components: A) a brief report and B) a presentation based on your findings. Prepare your recommendations for the senior leadership team of your organization.

Part A: Present Your Recommendations (5 points)

Your presentation should provide the audience with the following:

- Explain how cloud computing has been used to help in e-health solutions.
- Determine what some challenges in this area are.

• Illustrate what types of data are typically stored in the cloud for e-health.

Please record your slides as a screencast, which should be included in your submission. While there are many different high-quality screen cast tools, some include Screen-Cast-O-Matic < https://screencast-o-matic.com >, expression encoder < https://www.microsoft.com/en-us/download/details.aspx?id=24601 > and EZvid video maker <

https://www.ezvid.com/download >

Incorporate appropriate animations, transitions, and graphics as well as speaker notes for each slide. The speaker notes may be comprised of brief paragraphs or bulleted lists.

Length: 10-12 slides (with a separate reference slide)

Notes Length: 100-150 words for each slide (use the notes as a transcript for your video!)

Screencast Length: 3-5 minutes

Be sure to include citations for quotations and paraphrases with references in APA format and style where appropriate. Save the file as PPT with the correct course code information.

Part B: Prepare a Report (10 points)

For the second part of this week's assignment, prepare a report of your findings. Similar to your presentation, your report should:

- Provide your recommendation for the organization and explain why. You should also discuss why you are making this recommended direction. (Provide ample evidence to back up your stance.)
- Identify and explain any challenges your organization may encounter when proceeding with your recommendations.
- Provide research-oriented resources to help with your recommendations.

Support your both of your assignments with at least five scholarly resources. In addition to these specified resources, other appropriate scholarly resources, including older articles, may be included.

Report Length: 5-7 pages, not including title and reference pages

Your assignments should demonstrate thoughtful consideration of the ideas and concepts presented in the course by providing new thoughts and insights relating directly to this topic. Your responses should reflect scholarly writing and current APA standards. Be sure to adhere to Northcentral University's Academic Integrity Policy.

Upload your files and click the *Submit to Dropbox* button.

Thank you for your submission. You very thoroughly covered the required material for every part of this project. I really enjoyed watching your powerpoint, and you made many strong points in your paper. I like that you seem to have taken an interest in this subject.

Assignment:
Analyze an

20 / 20

Week 8 -

Open-Source

Project

A Individual Feedback

Part A: Prepare an Open-Source Report (15 points)

Select a mobile application of your choice from F-Droid, a popular source repository for mobile applications. Your report should be formatted such that you could submit it to a high-quality computing magazine or research venue. For the assignment, complete the following:

- Find an existing project on F-Droid.
- Briefly describe why you chose this application.
- List and summarize what can be learned from examining the project's repository.
- Determine interesting observations your readers can make.
- Using this information, explain any challenges that you believe the developers needed to overcome.

Conclude by identifying which venue you would submit your report to and explain why. You should also provide details about how the document should be submitted, including a URL. (For this assignment, you *are not* required to actually submit your work to the publication.)

Support your assignment with at least seven scholarly resources. In addition to these specified resources, other appropriate scholarly resources, including older articles, may be included.

Length: 12-15 pages, not including title and reference pages

Your assignment should demonstrate thoughtful consideration of the ideas and concepts presented in the course by providing new thoughts and insights relating directly to this topic. Your response should reflect scholarly writing and current APA standards. Be sure to adhere to Northcentral University's Academic Integrity Policy.

Upload your document and click the *Submit to Dropbox* button.

Part B: Present Your Report (5 points)

For the second part of the assignment, create a set of at least five PowerPoint slides, and produce a five-minute screencast on your report. The presentation should be oriented towards teachers who would be presenting your idea to their class. Essentially, you should be instructing other instructors how to teach your findings.

Upload your files and click the *Submit to Dropbox* button.

Excellent work on your paper, powerpoint, and screencast! You did make some very strong points in your paper, and the link worked fine.