CSC 5290: Cyber Security Practice Term Projects

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General Information

- A research project with 1-2 individuals
  - Building a new system
  - Improving an existing technique
  - Performing a large case study
- Deadlines
  - Project proposals due on Feb 21
  - Project discussion on Feb 26
  - Project presentations are on April 18
  - Project final reports due on April 18

Grading

- Project Proposal: 60 points

- Proposal Presentation: 20 points

- Final Presentation: 80 points

- Final Report: 100 points

- Total: 260 points

Project Proposals

- A two-page description
- Title and author(s)
- Problem statement
  - Describe what the problem is and why it is important
- Related work
  - Write about state-of-the-art solutions to the problem
- Proposed new solution
  - Describe the plan of your proposed approach. Use diagrams or figures if needed
- Evaluation plan
  - Describe your evaluation plan. Effectiveness and performance. What tools/benchmarks/attacks/experiments? What deliverables?

Project Presentations

- Each project has 20 minutes + 5 minutes Q&A

- Combining two classes for the presentations

- Presentation format may include slides or demo

Project Presentations

- Akkari, Adam

- Greason, Christopher

- Liao, Jinghui

- Zack, Dennis

- Zhang, Kevin

Project Final Reports

- 10-20 pages, double space, 11 font size

- May contain the following sections
  - Introduction
  - Related work
  - Background
  - System architecture/System design/Technical approach
  - Implementation
  - Evaluation results
  - Discussion (e.g., limitations)
  - Conclusion and future works

Project Final Reports

- Each project must submit a final report. The report must have a title page, main content, and references. The report should be single-column, 1 inch margins, 11-point size, double-spaced. To facilitate the grading of your report, please follow the suggested organization listed below.

- The title page should include
  - the title of the paper or project
  - author name and email address
  - course name, number, and instructor's name
  - a maximum 300-word abstract
  - three to five keywords.

Project Final Reports: Research Papers

- Introduction
  - (5 points) Discuss the background and motivation of your work.
  - (5 points) Summarize the research problem
  - (5 points) Summarize the proposed approach to the problem and the results
- Related work
  - (15points) Discuss research related to yours and make comparison if there are closely related work.
- Your approach
  - (20 points) Describe your approach in detail. You may present your result in any way you want as long as you believe it's convincing and clear.
- Validation of your approach
  - (30 points) Prove or demonstrate the effectiveness and/or efficiency of your approach. You may do this through theorems, experiments, etc.
- Conclusions and possible future work
  - (10 points) Summarize the conclusions of your work. Future work is optional.
- References
  - (10 points) List all the citations referenced in your paper. You will lose 1 points for each dangling reference (i.e., the reference not cited in the main text).