

## CSEP 590 Programming Systems Presentation

Every student will give a presentation about a programming systems related topic during class this quarter. We will allocate the last 3 class sessions to this. Presentations can be about a programming-systems related project you've done at work (or for fun!), or you may choose to research and present on a topic of interest. We will allocate 25 minutes for each presentation. Plan on 15-20 minutes for presenting, and 5-10 minutes for questions and discussion.

Here are some possible presentation topics, to help stimulate your ideas:

- Any of the papers from the “Classic Papers” section of <http://www.cs.cmu.edu/~.aldrich/papers/classic/> would make excellent topics. Prepare a 15-20 minute presentation summarizing the topic, and then lead a short question and discussion session with the rest of the class
- Research and present a program verification tool. Your presentation should include details about techniques and algorithms used to implement the verification.
- Research and present a programming framework specialized for a particular domain. Your presentation should describe the high level implementation, and the specializations that make it suitable for its targeted domain. Some example domains (others are possible as well):
  - Big data analytics (we will discuss Hadoop and Spark in an earlier lecture, so choose something else, e.g., Flink)
  - Embedded systems
  - Parallel or distributed programming
  - Accelerators (e.g., General Purpose GPU programming)

Feel free to choose something different as long as it is related to programming systems, and covers something new that your classmates (and instructor) can learn from.