Software Engineering Background Survey

Due: September 19, 2018

Please answer the following questions. This information will be used to assign students into groups for the projects in order to build teams with good balance of background and experience.

1. Name, email address
2. What is your major (e.g., CSE, ECE, other)?
3. What year are you and how many credits (approximately) have you earned thus far?
4. What is your overall GPA?
5. What is your major GPA?
6. What classes are you taking this semester? (Indicate which ones are project courses)
7. Are you working this semester? If so, how many hours (on average) are you working?
8. Have you taken the following courses or have comparable background from other courses?
   (a) Foundations of Computing (CSE 460)
   (b) Computer Networking (CSE 422)
   (c) Operating Systems (CSE 410)
   (d) Programming Languages / Compilers (CSE 450, CSE 452)
   (e) Databases (CSE 480)
   (f) Computer Security (CSE 425)
   (g) Other relevant courses numbered 400 or higher courses on gaming or web development
       (if so, indicate which ones and which platforms / packages you have used)
9. List programming languages in which you are proficient (i.e., have written several large programs of at least 1000 lines of code).
10. List the programming languages that you are somewhat familiar with (i.e., have studied or written at least one program of a few hundred lines in length).
11. Describe your web-related experience. Have you used web-related software (HTML, cgi scripts, etc.)? If so, what tools have you used and what is the extent of your experience?
12. Have you ever built a graphical user interface? If so, describe the graphical elements you built and the language and tools used.
13. Have you ever worked in a group of two or more on a software project? If so, briefly describe the scope of the project.
14. Have you ever written a technical paper at least 20 pages in length?

15. Do you have industry experience (e.g., coop, internship, full time position)? If so, where and what did you do?

16. Have you ever contributed to a FOSS (free and open source software) project? If so, briefly describe the project, languages and tools used, and your contribution.

17. What are your tentative plans after graduation?

18. Are you a morning or evening person?

19. Do you think you work better alone or with a group?

20. Do you have any experience with: (briefly describe)

   (a) parsing experience based on grammars (e.g., compilers)
   (b) databases (SQL or other)
   (c) technical support or consulting for industry
   (d) testing

21. List the platforms and corresponding operating and windowing systems that you have used (indicate level of proficiency)

22. Give the names of students currently in the class you knew prior to taking this course. Please describe briefly how you know the students (e.g., class together, roommate, etc.).

23. What is the most complicated or largest program you have developed on your own or as part of a team? Indicate what language and tools you used.

24. What does the phrase software engineering mean to you?

25. What does the phrase agile programming mean to you?

26. What does configuration management mean to you?

27. Have you ever used or encountered a coding standard and if so, what is your attitude about it?

28. What are you hoping to gain from the class?

29. How many hours of work do you think the class will require? Are you committed to contributing the necessary effort and time?

30. Your software use experiences:

   (a) What was the best piece of software that you have ever used? Why?
   (b) What was the worst piece of software that you have ever used? Why?