Expectations List for Developer Liberation Front (http://research.csc.ncsu.edu/dlf/)

Successful Outcomes (REU student):
- You have a PhD student-like experience, so you know what graduate school would be like, so you can make an informed choice about whether a PhD and research career is right for you
- I can write you a good letter of recommendation (for jobs, grad school, etc), based on my interactions with you
- You submit to a an SRC
  - Financing: I'll put up $500, $500 from SRC
- Stretch: You write a successful ICSE or CHI submission
  - Coauthor with others is more doable

Successful Outcomes (PhD first semester):
- Have DLF experience, so you can make an informed choice about whether our lab is right for you
- Impress me so that I want you to join our group, or I can strongly recommend you to someone else's group
- Otherwise, person/project specific

Successful Behaviors (All)
- Takes notes
- Be at school whenever the university is open, unless you arrange with me at least two weeks in advance.
- Be on time. Send email when you're not. Whenever possible, spend your time in the lab.
- Respond promptly to emails from me and labmates. Response within 24 hours is fairly reasonable, excepting weekends and holidays.
- Be observant and replicate (good) behaviors of others
- Be an active participant in lab, including reading group
- Keep me abreast of your progress
  - Make fine-grained plans and deliver on them
  - Anti-pattern: "I'm working on..."
- Set your own tasks
  - Ask me to confirm, not invent
  - Can help prioritize, but you tell me initially what priority you want
- Set an ambitious schedule, keep to it, adapt as necessary
- Carve out what you find interesting -- don’t just do what I find interesting
- Distinguish your work from others'
- Structure work so that there are intermediate research accomplishments (not just technical ones)
- Figure out what you need to do to work with me, your research advisor, effectively
  - Seek out help from me when you need it
Try to get help on your own, and from your peers, first
Take my advice when it's the best course of action, and when it's not, tell me why not (don't drop it silently -- I don't like repeating myself). If you think you may not understand the advice, ask me to explain.
Infer the pattern from my advice, implement it

- Regular events
  - Read 2 papers per week, post to citeulike, write a 2-sentence summary, then relate it to your work
  - Go to one meetup per month

PhD Student Behaviors
- Make insightful observations. How?
  - Point out internal contradictions
  - Make connections between seemingly disparate things
  - Find evidence against some weakly held assumptions
- Prioritize Science over Engineering
  - What can we learn without a full solution?
  - What can you cut responsibly and still do your study?
- Come up with new ideas that haven't been researched before
- Evaluate the ideas and work of yourself and others critically
  - Is it feasible?
  - What are the advantages and disadvantages?
  - Give constructive feedback on others' work

Questions
- What motivates you?
- What schedule do you want this summer/semester?
- What do you imagine for yourself beyond this summer/semester?
- Do you have other questions for me?