Welcome!

Lecture notes can be found here: bit.ly/cs-1101-bonus-3

———

CS 1101 Bonus Lecture 03: Moving Forward in CS

Irfaan Khalid | November 9, 2017

Introduction

In case you don't know me by now...

Goals

- Recap your accomplishments in CS 1101
- Discuss your options in Vanderbilt CS moving forward
- Learn how to get involved in Vanderbilt's CS community
- Give you an opportunity to openly ask questions

Housekeeping

Notes
bit.ly/cs-1101-bonus-3

Extra Credit

- Answer these questions in a text file and submit it to Brightspace by **7:30pm**
    a. What did you like about these bonus lectures?
    b. What would have liked to see done differently in the bonus lectures?
    c. What was your favorite part about CS 1101?

During this Session

- **Don't hesitate to ask questions along the way!**
- You won't need your laptops until the end of the lecture to submit for EC
  - Feel free to close your laptops and just listen :)
- We'll have a Q&A at the end in case you have any lingering questions

Reviewing CS 1101

Congratulations!

- You're in the home stretch of a difficult course
- You've accomplished a lot this semester
  - You've met tough deadlines
  - You've addressed challenging bugs
  - You've adhered to specific style guidelines

Give yourselves a round of applause!

What have you learned?

- The basics of programming and problem-solving
- Some of the fundamentals of how computers work
- How to write code that not only works, but is written *well* and is maintainable

What can you do with what you've learned?

- Learn more
  - Take higher-level courses
  - Work on side projects
  - Get involved with student organizations
  - **Build upon the foundation you've established in CS 1101**
- Build more
  - RateMyVandyProfessors
    - Jamal built this after just taking CS 1101!

Future Computer Science Courses

General Advice

- It's supposed to be hard!
  - Frustration is normal
  - The solution usually makes the frustration worthwhile
- Focus on meeting specifications to the dot
  - Professionalism means delivering exactly what the user wants,
    - Even if it's not ideal
  - You practiced this in CS 1101
    - The specifications guide you
    - This is reflective of industry

Vanderbilt University CS Courses

- Software Design and Problem-Solving
    - CS 2201 (Program Design and Data Structures)
    - CS 3251 (Intermediate Software Design)
    - **CS 3270 (Programming Languages)**
- Hardware and Systems
    - CS 2231 (Computer Organization)
    - **CS 3281 (Principles of Operating Systems I)**
- Computer Science Foundations
    - CS 2212 (Discrete Structures)
    - CS 3250 (Algorithms)
- Many higher-level CS courses and technical electives!

Getting Involved

VandyHacks

- Attend VandyHacks events
  - Annual hackathon
  - Hack nights
  - Study nights
- If interested, apply to be an organizer in January
  - This is what got me hooked on CS
- Reach out to me for more info

VandyApps

- Attend weekly sessions to learn new skills
- Reach out to Varun Arora or John Valin for more info

Women in Computing

- Attend GBMs and events like Emerge
- Elections are coming up
- Sign up for their mailing list to get updates
  - Link is in the lecture notes
- Reach out to Miti Joshi for more info

Other Organizations

- Code Ignite
- Theta Tau
- Phi Sigma Rho
- IEEE

Careers

General Thoughts

- Computer Science gives you many career options
- Students often ask, *"Is CS for me?"*
  - Do you enjoy it?
  - Do you do well on the CS 1101 assignments?
    - Tests aren't always the best indicator of your skill
- If you pursue a career in Computer Science, I hope you find it fulfilling :)

Internships

- Pursue them, but don't become obsessed
- Generally difficult to find until you've taken CS 2201
  - Undergraduate research is always a good option!
- Pursuing internships
  - **Apply** a lot of places
  - Take advantage of **networking** opportunities
  - **Practice** for technical interviews

Career Paths

- Software engineering
- Technical consulting (and non-technical consulting!)
- Academia
- Pretty much anything else - employers love CS majors!

Questions?

Feel free to ask any lingering questions you have about anything covered in this lecture or otherwise!

Thanks for coming!

To receive extra credit for attending this lecture, answer these questions in a text file and submit it to Brightspace by 7:30pm.

- *What did you like about these bonus lectures?*
- *What would have liked to see done differently in the bonus lectures?*
- *What was your favorite part about CS 1101?*