



### Instructor Introduction

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## My Technical Background

- Wonsun Ahn
  - First name is pronounced one-sun (if you can manage)
  - Or you can just call me Dr. Ahn (rhymes with naan)
- PhD in CPU Design and Compilers
  - University of Illinois at Urbana Champaign
- Industry Experience
  - Software engineer, field engineer, technical lead, manager
  - Bluebird Corporation (70-person startup company)
    - ☐ Manufactures industrial hand-held devices from top to bottom
    - □ Me: Built software stack based on Windows Embedded
  - IBM Research (thousands of people)
    - □ Does next-gen stuff like carbon nanotubes, quantum computers
    - □ Me: Designed supercomputers for ease of parallel programming

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## My World View

- Everything is connected
  - Pandemic: If my neighbors catch the virus, so will I
  - Environment: If my neighbors pollute, I will feel the effects
  - Economy: Think of how the subprime mortgage crisis spread
- Zero-sum thinking (old way of thinking)
  - "If you get a larger slice of the pie, I get a smaller slice."
  - Therefore, if you lose, I win (and vice versa)
- Zero-sum thinking no longer works
  - If you catch the virus, do I become safer from the virus?
- Collaboration is replacing competition

# **Collaboration is Replacing Competition**

- Is happening in all spheres of life
- Collaboration is also happening in the IT industry
  - The open source movement
  - Increasing importance of the software/hardware ecosystem
  - Increasing importance of the developer community
- Collaboration is also important for learning
  - During my undergrad years, what do I remember best?
  - Stuff that my classmates taught me
  - Stuff that I explained to my classmates



## **Supporting Collaborative Learning**

- I never grade on a curve
  - You will not be competing against your classmates
  - You are graded on your own work on an absolute scale
- You will be working with a partner (on GitHub)
- You will be a member of a Team
  - You are already a member of the class on Microsoft Teams
  - I encourage you to be on Teams at most times (I will too)
    - ☐ You can install app on both laptop and cell phone
  - If you have a question, you can ask in the Team "Posts" tab
    - ☐ Either your classmate or your instructor will answer
  - You can chat with any individual on the Team
    - ☐ "Manage Team" item in the "..." Team context menu



# **Supporting Collaborative Learning**

- You will be a member of a Group
  - On Teams, you are part of a chat group of 8~9 members
  - Members are a good mix of in-person and online students
  - Your instructor is also a member of each Group
  - It is a smaller support group where you can talk more freely
- There will be many unscored exercises
  - You still need to submit them, but the scores won't matter
  - You are encouraged to share each other's work and learn



## Course Introduction

#### Structure of the Course



- (20% of grade) Two Midterms
- (70% of grade) Five projects
  - Manual Testing and Traceability Matrix
  - Unit Testing
  - Systems Testing a Web Application
  - Performance Testing
  - Comprehensive static & dynamic testing
- (10% of grade) Participation
  - TopHat lecture questions, exercise submissions, Teams participation
- Class resources:
  - Canvas: announcements, Zoom meetings, recorded lectures
  - GitHub: syllabus, textbook PDF, lectures, exercises, deliverables
  - Tophat: online lecture questions
  - GradeScope: exercise / deliverable submission, grading and feedback
  - Microsoft Teams: Online / off-line communication

## For More Details



- Please refer to the course info page: <a href="https://github.com/wonsunahn/CS1632\_Fall2020/bl">https://github.com/wonsunahn/CS1632\_Fall2020/bl</a> ob/master/course-info.md
- Please follow the course schedule syllabus: <a href="https://github.com/wonsunahn/CS1632\_Fall2020/bloob/master/syllabus.md">https://github.com/wonsunahn/CS1632\_Fall2020/bloob/master/syllabus.md</a>

#### **TODO**



- Submit the TopHat survey questions (due 8/21)
- Submit the Java assessment exercise (due 8/28):
  - https://github.com/wonsunahn/CS1632\_Fall2020/tree/mas ter/exercises/0
  - Submit to GradeScope
- Submit the partnership contract (due 8/28):
  - https://github.com/wonsunahn/CS1632\_Fall2020/blob/mas ter/partnership\_contract.txt
  - Submit to GradeScope

## **Brainstorming**



- Please go to your respective Teams chat groups
  - But stay in the Zoom room and use only chat on Teams
  - To have chat content accessible to asynchronous students
- 1. Get to know each other; introduce yourselves
- 2. And then try to answer the following questions:
  - What do you think software quality assurance is?
  - What software quality assurance techniques have you employed during your career?
  - What software quality assurance techniques do you wish to learn through this course?
- 3. Around 9:45, we will share discussions with class