

Software Engineering for Building Intelligent Systems (SE4AI)

Introduction

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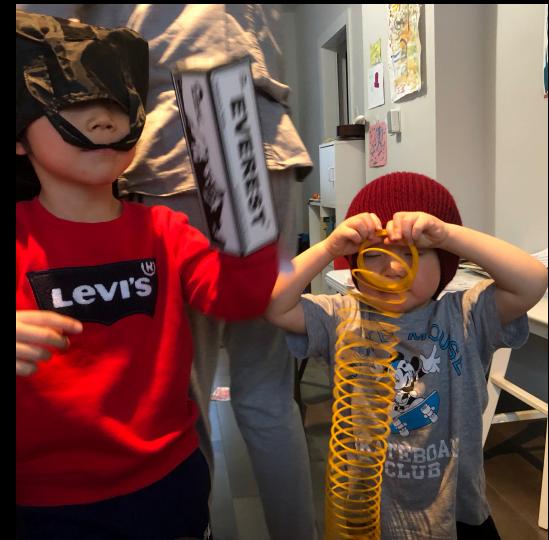
What we expect



What we get

Uncomfortable home office
Constant Distractions
Choppy internet connection
Impossible time difference

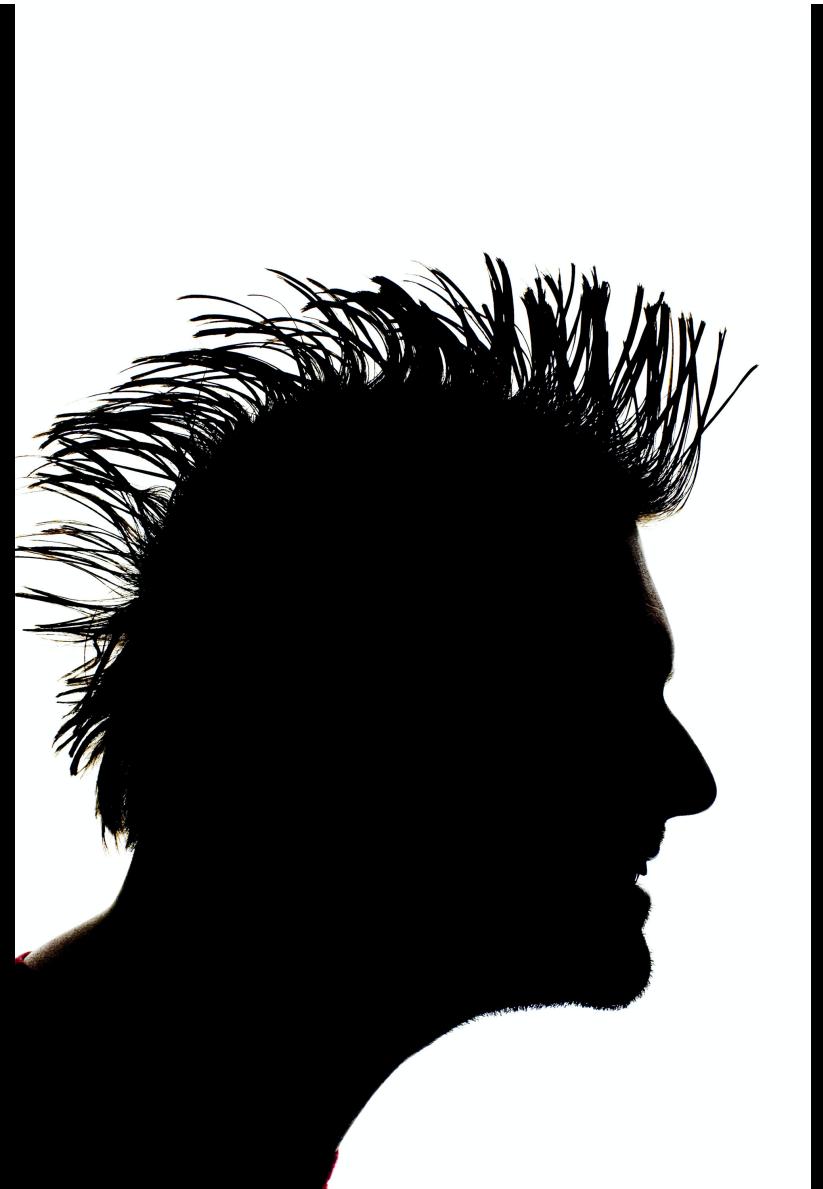
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What we get

**Uncomfortable home office
Constant Distractions
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Understanding and Reasonable Expectations

For everyone

During the class

Using Zoom

Being active:

Speak up

Use chat

Keep your camera on if possible (setup the profile photo)

Mute when you are not speaking

Attend 10 mins before/after the lectures if you like

McGill Learning resources about using Zoom

Before/After the class

Using Slack (se4ai-mcgill-fall2020.slack.com)

Easiest way to reach out to me, Breandan, and your peers

Know more about each other

Find/discuss common interest

Collaborate on assignments and projects

This course is about

**Software Engineering for
Building Intelligent Systems**

Disclaimer: Many first

Background

What do I need to know in advance?

- SE?
- AI?

Who are we?

Jin Guo

Breandan Considine

Activity 1

Think about one of your past project related to either SE or AI

- Describe the problem you were aiming to address
- Describe the biggest challenges you have faced on this project.

1. Introduce yourself to your break-out room
2. Find three common things among your “roommate”
3. Share your descriptions to the above questions to your
“roommate”

Schedule (Tentative)

| # | Date | Content | # | Date | Content |
|----|--------|--------------------------------------|----|--------|--------------------------------|
| 1 | 03-Sep | Introduction | 14 | 20-Oct | Infrastructure Support |
| 2 | 08-Sep | Intro to Modern Software Development | 15 | 22-Oct | Project Progress Report |
| 3 | 10-Sep | AI basics (focusing on ML) | 16 | 27-Oct | Case Study |
| 4 | 15-Sep | Evaluation | 17 | 29-Oct | AI principles Overview |
| 5 | 17-Sep | Model -> System | 18 | 03-Nov | Safety |
| 6 | 22-Sep | Data Quality | 19 | 05-Nov | Security |
| 7 | 24-Sep | Data Management | 20 | 10-Nov | Privacy |
| 8 | 29-Sep | Requirement for (and) AI | 21 | 12-Nov | Accountability/Auditing |
| 9 | 01-Oct | Requirement for (and) AI | 22 | 17-Nov | Transparent and Explainability |
| 10 | 06-Oct | Human-AI Interaction Design | 23 | 19-Nov | Faireness |
| 11 | 08-Oct | Human-AI Interaction Design | 24 | 24-Nov | Value in AI Design |
| 12 | 13-Oct | Team and Collaboration | 25 | 26-Nov | Wrap up |
| 13 | 15-Oct | Quality Assessment | 26 | 01-Dec | Presentation |

Assessment

Focus on collaborative learning

- Participation 10% (survey for topics to present)
- Assignment 60%
- Project 30%

See you next week!