

# Welcome to CS 310 – Fall 2024

“Scalable Software Architectures”

- **Professor Joe Hummel**

- ❖ *Professor of Instruction*

- ❖ *Office: Tech L365*



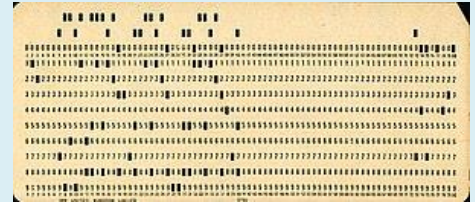
- **Pronouns:** he/him
- **How to address:** Professor Hummel or Professor Joe



Northwestern  
University

# A little bit about me...

- I'm relatively new at NU --- my 3<sup>rd</sup> year
- I've been teaching CS for over 25 years, and programming for over 45 years
  - *Yes, I wrote computer programs using punch cards*
- I'm an avid cyclist and sailor
  - *Cycled around Italy (Tuscany region) in June*
  - *Sailed around Lake Michigan in July/August*



# Class goals



- Cloud-native applications
- Scalable architectures
- Designs
- Trade-offs
- Build prototypes
  - *Languages: JavaScript, Python, SQL*
- Focus on server-side, not client-side

# Flipped Classroom

- I'm trying something new this quarter...
- Flipped classroom =>
  - *Lectures recorded and viewed outside of class time*
  - *Class sessions focus on demos, problem solving, live coding, discussions, general Q&A*

- **Why?**

1. *Class attendance was hitting 10% --- everyone was reviewing PPT or class recordings outside of class*
2. *Theory better presented via PPT / recordings (?), spend more time in class on the application*

# Summary of class...

*Projects (individual): 56%*

	Mon	Tuesday	Wednesday	Thursday	Friday
<b>September</b>		24: class session		26: NO CLASS	
<b>October</b>		01: class session		03: class session	
		08: class session	09: project 01	10: class session	
		15: class session		17: class session	
		22: class session	23: project 02	24: class session	
		29: EXAM 01		31: class session	
<b>November</b>		05: class session	06: project 03	07: class session	
		12: class session		14: class session	
		19: class session	20: project 04	21: class session	
		26: class session		28: NO CLASS	
<b>December</b>		03: EXAM 02		05: class session	06: final project

*Exam: 15%*

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*Final Project (teams): 14%*

# Next two weeks...

## SEPTEMBER 2024

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

[www.a-printable-calendar.com](http://www.a-printable-calendar.com)

## October 2024

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

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## Notes:

- *Read through the syllabus on Canvas*
- *No class on Thursday September 26<sup>th</sup>*
- *Lecture recordings will start to post this weekend...*
- *Flipped classroom starts Tuesday, Oct 1<sup>st</sup>*
  - *Look on Canvas for class session topics*
  - *Example: Tues 10/1 will be databases and SQL*
  - *Class sessions are NOT recorded*
  - *Afternoon class session will start @ 3:45 (not 3:30)*
- *Project 01 due Wednesday October 9<sup>th</sup>*
  - *Not yet available, will be released in a couple days*