SDEV 2401

Rapid Backend Development

Introduction to the course.

Agenda

On the right is what we will cover today.

Welcome
About me
Why are you here?
My expectations for you
What you can expect from me
Mental Health and Support
What you're going to learn in the course

Welcome to SDEV 2401

Congratulations on making it to the first day of second semester

My name is Dan Mouris and I'm going to be your instructor for this course.
Contact me on teams or email.

Teams: Search for "Dan Mouris" Email: dmouris@nait.ca

I try to get back to you folks ASAP, which will change as the semester goes on and if you folks are meeting expectations (more on this later)

Note: I'm normally quicker on teams.

About me

Education:

- I did my BSC in Electrical Engineering at the University of Alberta
- I'm in the current process of completing my Masters in Computer Science at Georgia Tech in Machine Learning.
- I also did some volunteer teaching at Stanford University during covid.

Work Experience:

- I have worked in the software industry for a long time and worked a a variety of companies.
- I've done everthing from web development, Artificial Intelligence, DevOps, and more.

Community Involvement

- I spoke at conferences like Pycon Canada and PyCascades
- I ran the Edmonton Python user group for a few years and I'll be encouraging you folks to get involved in these events. I also run try to run a few meetups here at NAIT.

Why are you here?

In the Course

- Here to learn the fundamentals of backend programming using open source frameworks like django.

  - how to map html pages to views through static and dynamic urls
  - use Object Relational Mappers (ORM) to interact with the database layer of an application.
  - learn design patterns like model view controller and model view template
  - use authentication, and do user management
  - use industry standard practices to validate and sanitize data in the backend
  - implement file uploads and use media in applications
  - create scripts within a backend framework context.
  - create a authenticated REST API.
  - go over some extra packages and the basics of deployment.

Expectations - What I expect from you

- No Late Assignments

- No Cheating

- Be a good classmate

- Don't waste your time

- Show up to class

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Expectations - No Late Assignments

There will be no tolerance for late assignments ever.

If you have a circumstance that is extreme, please talk to me 3 to 5 days before the assignment is due.

Excuses that won't be accepted:

- "I didn't have time to get it done"
- "I have time to finish"

All classes and students have the same expectations.

Expectations No Cheating

Both people get penalized.

What is cheating?

- Cheating if you are giving your assignment.
- Cheating if you copy off of someone.
- You're Cheating if you use AI to do your assignment.

Note: Don't do it, I will make sure if you cheat that things will not be easy for you. Remember that I'm not naive.

Repercussions of Cheating

1st time: 0% on the assignment for everyone involved.

2nd time: 0% in the course, and possible suspension. We will probably not be friends.

Expectations - Be a good classmate

If you're a good colleague, you'll have friends in the classroom and the future.

- Being kind to others

- Behaving professionally

- Using welcoming and inclusive language

- Being respectful of differing viewpoints and experiences

- Gracefully accepting constructive criticism

- Focusing on what is best for the classroom

- Showing empathy towards other classroom members

This is the same expectations at the PyCon conference which you can access here:
https://github.com/python/pycon-code-of-conduct/blob/master/code_of_conduct.md

Expectations - Be a good classmate

What not to do:

- Swearing

- Being mean to others

- Offending other people in any way in the classroom

- Not showing up

Expectations - Don't waste your time

Stay focused in class.

- don't play games

- don't watch videos

- don't do other homework

- don't talk about some random ski trip you went on last week.

if the class is going too slowly please let me know.

- I want to make this class worth your while so I'll point you in the direction of learning resources.

If you don't understand something, please ask questions.

- I'm not a psychic, I can't read your mind.

  - "But everyone else understands it" if you ask the question, you'll be helping others that are just as shy/confused as you are. I guarantee you're not alone.

Expectations - Show up to class

- I will not be taking attendance
  - Although if you're not here for four weeks in a row you'll most likely not be in the program.
  - If you miss three classes in a row I'll be asking you what's going on and pointing you to a student advisor
  - I notice when people aren't here.
- If you show up to class, I will try my best to make you succeed.
- We all win if you guys do great
- Also try your best, you're paying to be here and if you want extra curricular learning I will definitely point you in the right direction and try to open doors.
- **If you want to book time with me and you don't show up to class, I reserve the right to tell you no.** Value your class time, if you're coming to class awesome, feel free to ask for help outside of class any time.

Expectations - What you can expect from me

- I will try my best to make you succeed and do well.
- I will mark your assignments within a 5-14 days.
  - If it isn't I will communicate this to you and try to get it to you as quick as possible.
- I might not have all the answers (I might for this course) but if I don't have the answer to your question I will get it to you next time.
- If you apply yourself and learn more things, I will help you expand your knowledge beyond this course.
- I'm out and about in the community, so if you show up to the Python meetup you can talk to me there. No class talk there, just Python stuff.
- I'll be letting you folks know before every class community events around town, go to them. Especially early in the semester when you have time.
- My cats will most likely visit our online lectures.

Mental Health and Support

- This is super important

- Take your mental health seriously

- Take breaks, don't just work all the time

- Take your sleep seriously

- Mental Health is an issue a bit more common in this field, so you're not alone

- In HP there is a Mental Health counselling center that is downstairs

    - Please reach out to me if you need some more information about any of these services.