HOW TO GET AN A IN DATA 602.

Also, other administrative stuff.

Welcome to DATA 602

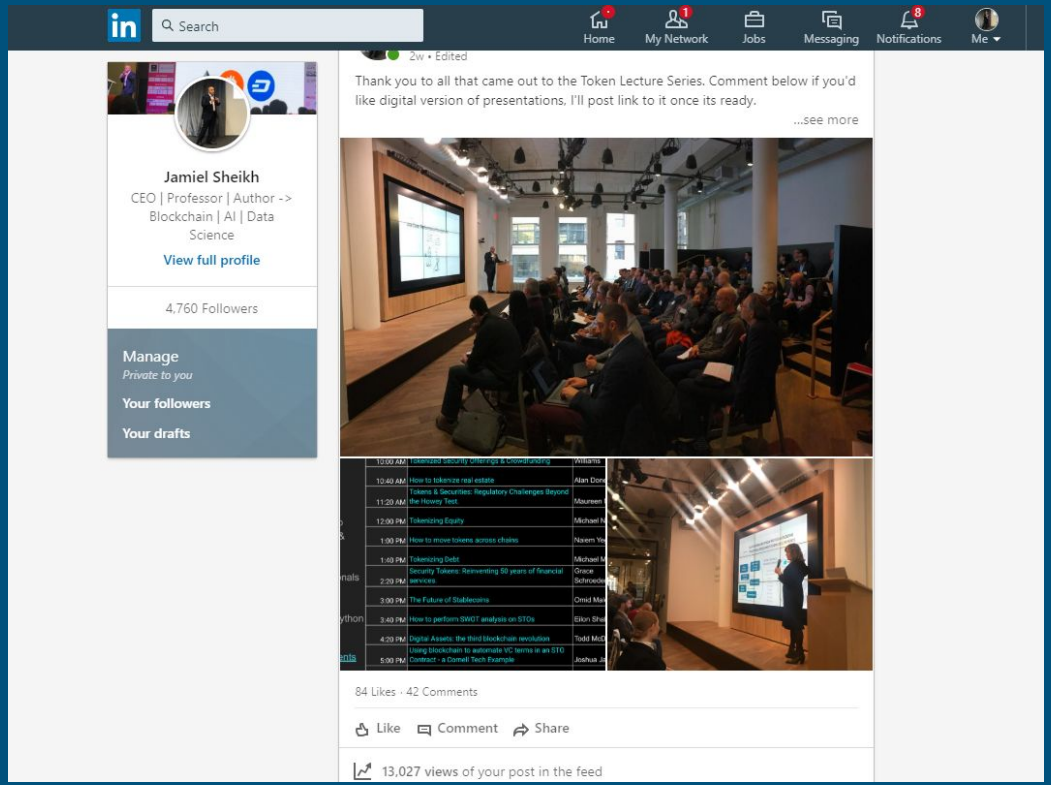
About Me

- CEO of Chainhaus - advisory, education & training, dev shop, STO - in blockchain | AI | data science
- 20 years of experience in technology, distributed computing, coding, banking, trading, analytics, management, entrepreneurship, real estate
- Education
  - MBA from Columbia University, BBA Baruch College
  - Completing 2nd Masters in Artificial Intelligence from Georgia Tech
- Teach
  - Graduate professor at Columbia, NYU and CUNY teaching blockchain, AI, app development, performance management and machine learning
  - Private courses http://chainhaus.eventbrite.com
- Writing book on Corda blockchain for O'Reilly
- Run one of largest Blockchain meetups in NYC - http://meetup.com/blockchainNYC
- R3 Corda Certified Developer
- Coding: Java, Python, Go, Scala, Kotlin, C++, JavaScript
- Real estate licensed in NY, NJ, own a brokerage

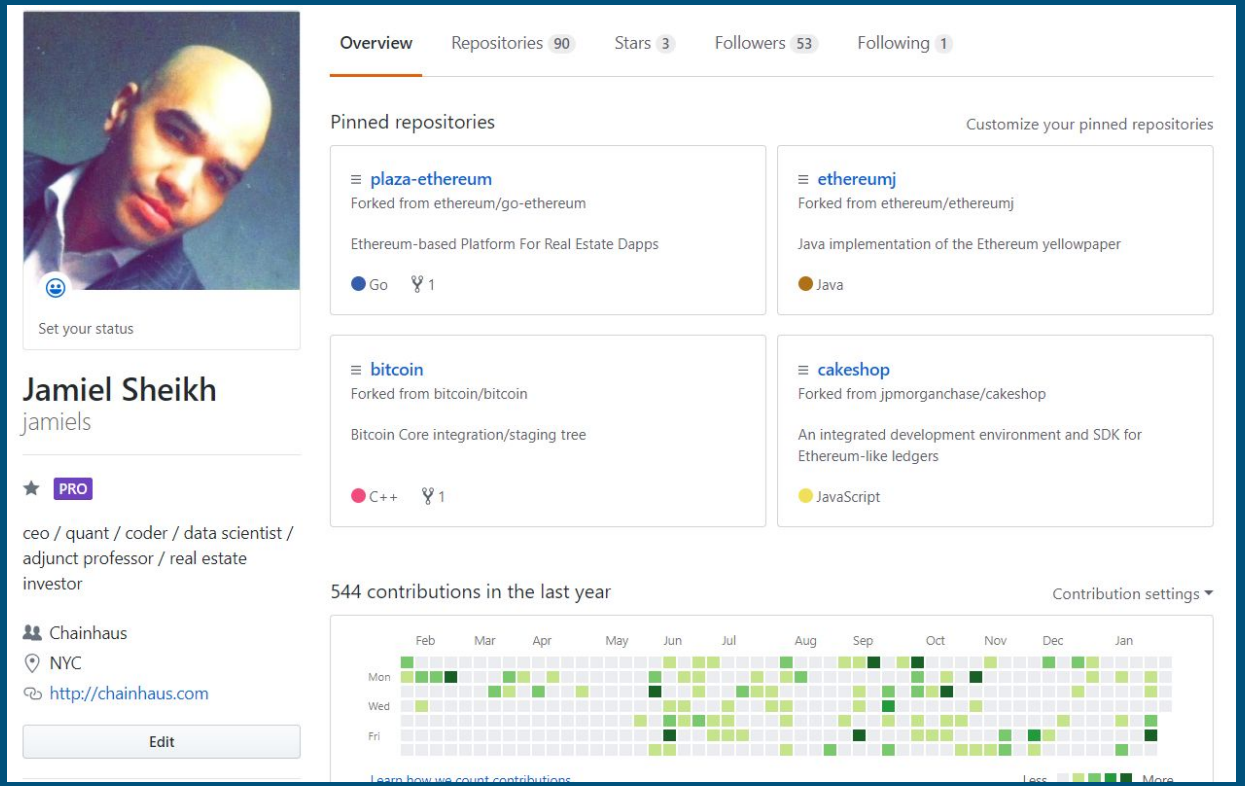
How To Contact Me

- Email
  - jamiel.sheikh@sps.cuny.edu
  - jamiel@chainhaus.com
- Slack ID: @jamiel

LinkedIn - http://linkedin.com/in/jamiel



GitHub - http://github.com/jamiels



Course Objective

- Learn Python.. Yes…
- ..but also think like a coder
- ..think about efficiency
- ..think about clean code
- ..think about concise code
- Introduction to machine learning with Python
- Blockchain concepts
- Industry perspectives - QOTW

Weights

5%	Syllabus Quiz
20%	Completion of DataCamp videos by end of week 15
15%	Participation
55%	8 Coding Assignments
2.5%	Pre-Course Assessment
2.5%	Post-Course Assessment

Major Deliverables

- 8 Coding Assignments
- Videos + 4 DataCamp Videos
- Participation
  - Question of the Week
  - Slack
- Syllabus Quiz, Pre-Course and Post-Course Assessment

Reading

- 3 Texts
  - Think Python
  - Practical Data Analysis
  - Python Machine Learning Algorithms
- Just grab it from here: http://bit.ly/DATA602Files

The Coding Assignments

1	Core Python
2	Data Structures
3	OOP
4	Blockchain
5	Flask
6	Pandas and NumPy
7	Supervised learning
8	Database

The Coding Assignments

- Released roughly every two weeks
- Individual assignment
  - Will run a code checker to see matching code
  - Common techniques of moving lines around, renaming variables etc. won't work
- There is no strict "right answer" in *how* its done
  - Only degrees of correctness
- You lose points for
  - Not following rules declared in the header
  - Significantly inefficient code
  - Not passing test cases (heavy penalties)

The Assignments: The Unbreakable Rules

- Modify code ONLY in the designated areas
- Make sure test cases pass
- Do NOT import additional libraries except if its part of the Python core framework (if you have to pip install it, its outside of Python)
- Do NOT use global variables
- Make sure to commit code to the MASTER branch in Github
- Submit only .py files (No Jupyter notebooks)
- Last commit before deadline
- Do NOT change name of file

Late Assignments

- Minus 5 every 24 hours for a max of 4 days (96 hours) then a zero
- Make sure test cases pass
- Do NOT import additional libraries except if its part of the Python core framework (if you have to pip install it, its outside of Python)
- Do NOT use global variables
- Make sure to commit code to the MASTER branch in Github
- Submit only .py files (No Jupyter notebooks)
- Last commit before deadline

Assignment Submission

- Keep your assignment in private repo
- Submit link to the assignment file into Blackboard under the assignment

Assignment Rubric

- Attains Objective
- Code Efficiency
- Creativity
- Adheres to Standards
- Robustness
  - Exceptions, error handling
- Presentation

DataCamp Videos

- The Four
  - Introduction to Python for Data Science
  - Intermediate Python for Data Science
  - Introduction to Data Visualization
  - Supervised Learning with scikit-learn
- Will be tracked
- Invites coming to your inbox

Participation

- Add value
- Solve problems
- Will be tracked
- Quantitatively evaluated
- Qualitatively evaluated

Slack

- http://chainhaus.slack.com
  - Why?
- Join #data602 channel (or risk missing out)
- Too many messages?
  - Mute
- Pinned messages are critical / important
- No DMs to me.. Unless of personal nature
  - Can’t scale
  - Can’t create exclusive access
  - Transparency of info

December 13th, 2018

> Spring 2019 | cuny sps
> Date Day of Week Agenda October 15 Monday Registration opens for 2019 winter and 2019 spring terms January 10 - 24 Thursday - Thursday Orientation (as scheduled by programs) January 17

BrianW 10:50 PM
I'm sure I'll get in touch with Rokshana before then. 😌
1

December 14th, 2018

jamiel 11:04 AM
It's amazing how the coding style of the class has converged into clean, very professional code
6 1 1

Pinned by you

jamiel 3:23 PM
Grades have been posted to Blackboard, please make sure to check and verify it. I will be posting final grades to CUNYFirst (your official grade) on Monday evening. If there is any issue, this is the time to raise it, please either email or DM me ASAP.

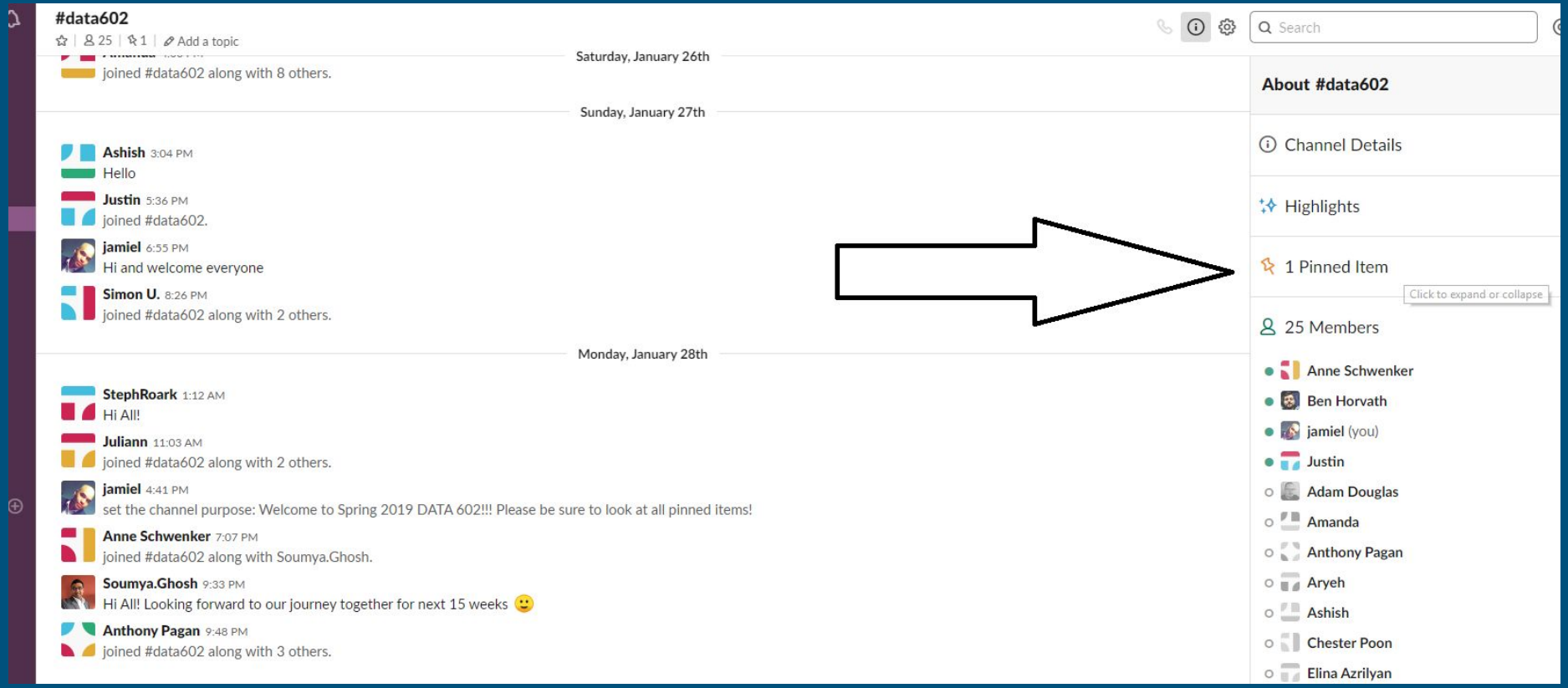
jamiel 3:33 PM
...or forever hold your peace?

3:35 PM CUNY SPS Grading Schedule

Pasted image at 2018-12-14, 3:35 PM

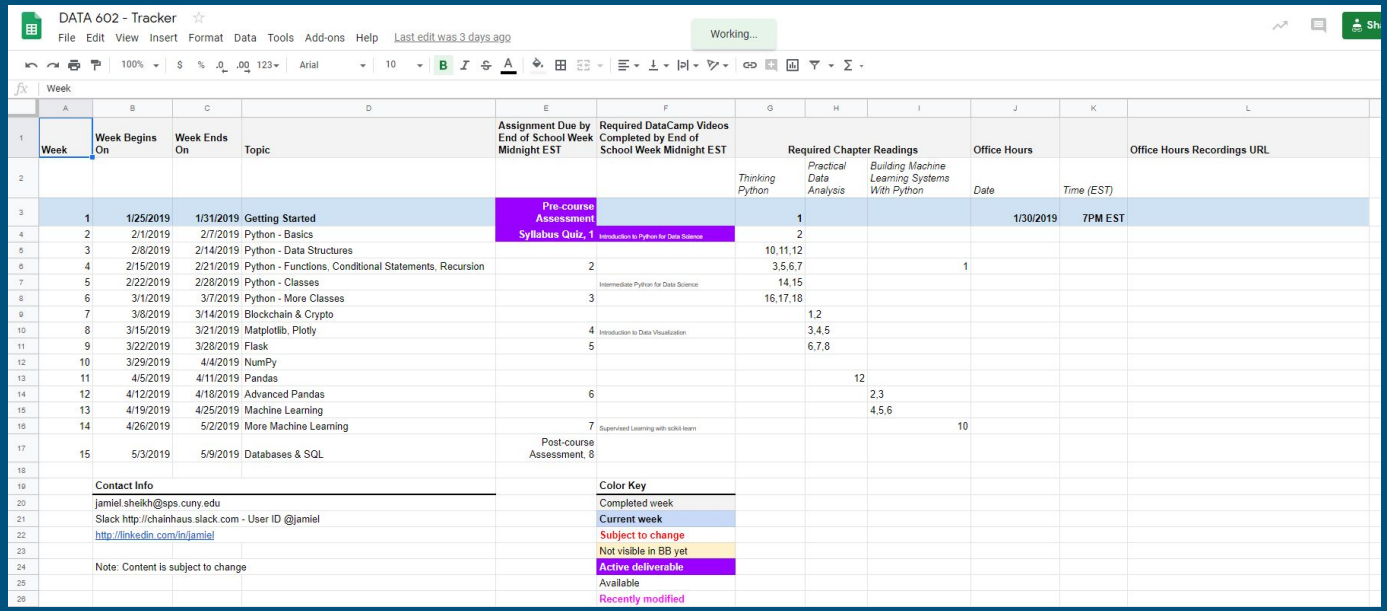
The graduate student's CUNY SPS grade (A, B, C, or F) reflects assessment by the instructor of key course components. The following grades are assigned:

Letter Grade	Ranges %	GPA
A	93-100	4
A-	90-92.9	3.7
B+	87-89.9	3.3
B	83-86.9	3
B-	80-82.9	2.7
C+	77-79.9	2.3
C	70-76.9	2


#data602
25 | 1 | Add a topic
Search
Saturday, January 26th
joined #data602 along with 8 others.
Sunday, January 27th
Ashish 3:04 PM
Hello
Justin 5:36 PM
joined #data602.
jamiel 6:55 PM
Hi and welcome everyone
Simon U. 8:26 PM
joined #data602 along with 2 others.
Monday, January 28th
StephRoark 1:12 AM
Hi All!
Juliann 11:03 AM
joined #data602 along with 2 others.
jamiel 4:41 PM
set the channel purpose: Welcome to Spring 2019 DATA 602!!! Please be sure to look at all pinned items!
Anne Schwenker 7:07 PM
joined #data602 along with Soumya.Ghosh.
Soumya.Ghosh 9:33 PM
Hi All! Looking forward to our journey together for next 15 weeks
Anthony Pagan 9:48 PM
joined #data602 along with 3 others.
About #data602
Channel Details
Highlights
1 Pinned Item
Click to expand or collapse
25 Members
Anne Schwenker
Ben Horvath
jamiel (you)
Justin
Adam Douglas
Amanda
Anthony Pagan
Aryeh
Ashish
Chester Poon
Elina Azrilyan

Tracker Spreadsheet

- Dashboard view of everything (sorta)
- http://bit.ly/DATA602Tracker



DATA 602 - Tracker

File Edit View Insert Format Data Tools Add-ons Help Last edit was 3 days ago

Working...

Week

Week	Week Begins On	Week Ends On	Topic	Assignment Due by End of School Week Midnight EST	Required DataCamp Videos Completed by End of School Week Midnight EST	Required Chapter Readings			Office Hours		Office Hours Recordings URL
						Thinking Python	*Practical Data Analysis*	*Building Machine Learning Systems With Python*	*Date*	*Time (EST)*	
1	1/25/2019	1/31/2019	Getting Started	Pre-course Assessment		1			1/30/2019	7PM EST	
2	2/1/2019	2/7/2019	Python - Basics	Syllabus Quiz, 1	Introduction to Python for Data Science	2					
3	2/8/2019	2/14/2019	Python - Data Structures			10,11,12					
4	2/15/2019	2/21/2019	Python - Functions, Conditional Statements, Recursion	2		3,5,6,7		1			
5	2/22/2019	2/28/2019	Python - Classes		Intermediate Python for Data Science	14,15					
6	3/1/2019	3/7/2019	Python - More Classes	3		16,17,18					
7	3/8/2019	3/14/2019	Blockchain & Crypto				1,2				
8	3/15/2019	3/21/2019	Matplotlib, Plotly	4	Introduction to Data Visualization		3,4,5				
9	3/22/2019	3/28/2019	Flask	5			6,7,8				
10	3/29/2019	4/4/2019	NumPy								
11	4/5/2019	4/11/2019	Pandas					12			
12	4/12/2019	4/18/2019	Advanced Pandas	6				2,3			
13	4/19/2019	4/25/2019	Machine Learning					4,5,6			
14	4/26/2019	5/2/2019	More Machine Learning	7	Supervised Learning with scikit-learn			10			
15	5/3/2019	5/9/2019	Databases & SQL	Post-course Assessment, 8							

Contact Info
jamiel.sheikh@sps.cuny.edu
Slack http://chainhaus.slack.com - User ID @jamiel
http://linkedin.com/in/jamiel
Note: Content is subject to change

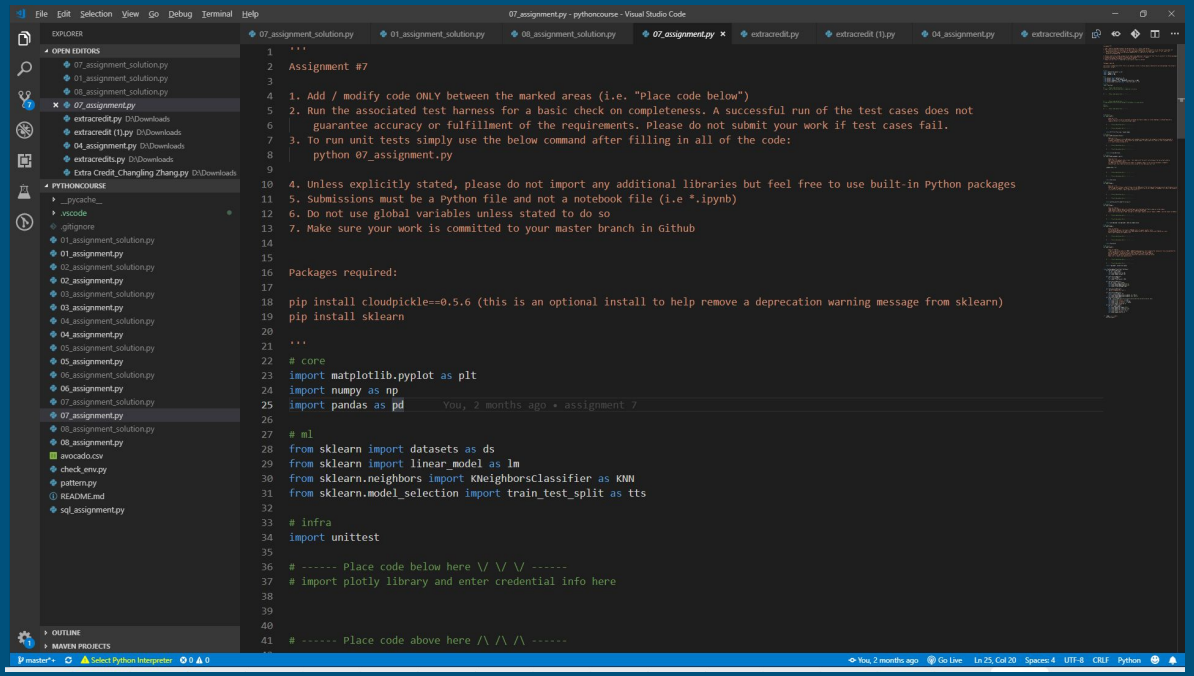
Color Key
Completed week
Current week
Subject to change
Not visible in BB yet
Active deliverable
Available
Recently modified

Installing Python

- Python 3.7.x
  - python -V
- CUNY VDI

Editors

- PyCharm
- Visual Code
- Atom
- Sublime



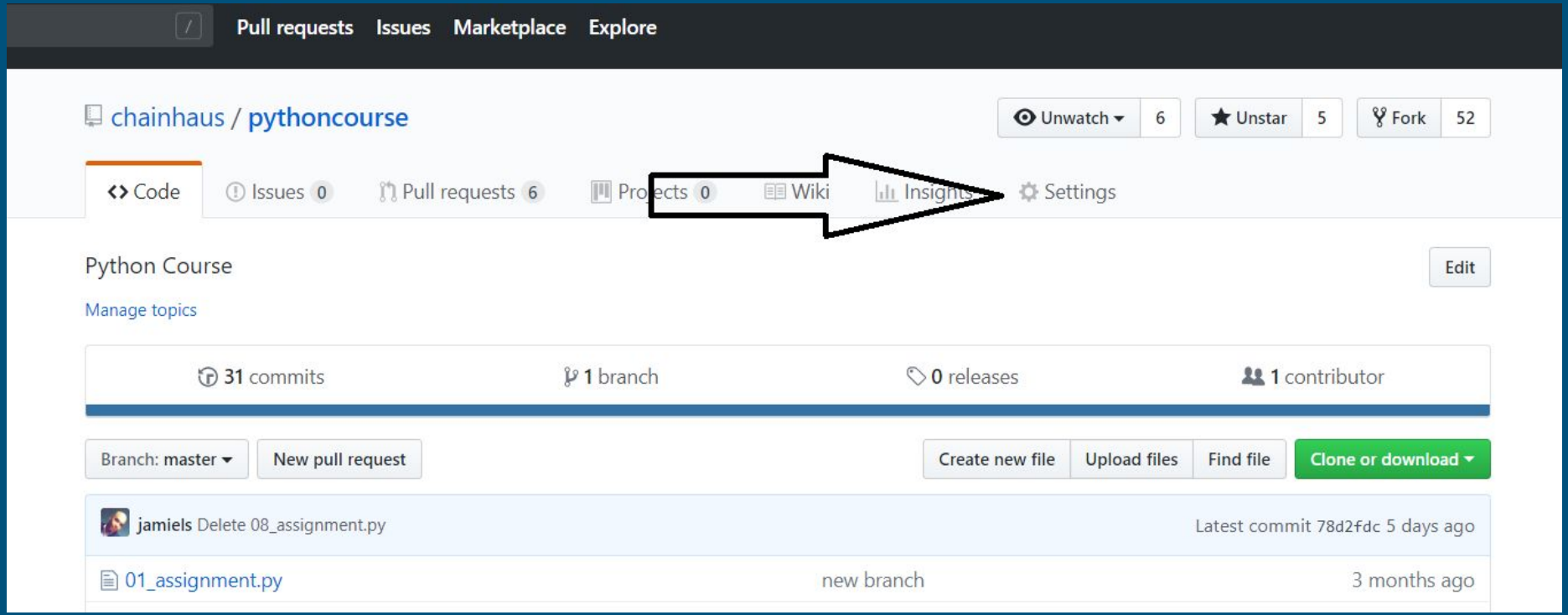
What is Git? Github?

- Tackle understanding it ASAP
- Commands you really need to know
  - `git init`
  - `git add -A`
  - `git add origin`
  - `git clone`
  - `git commit`
  - `git push`
  - `git pull`

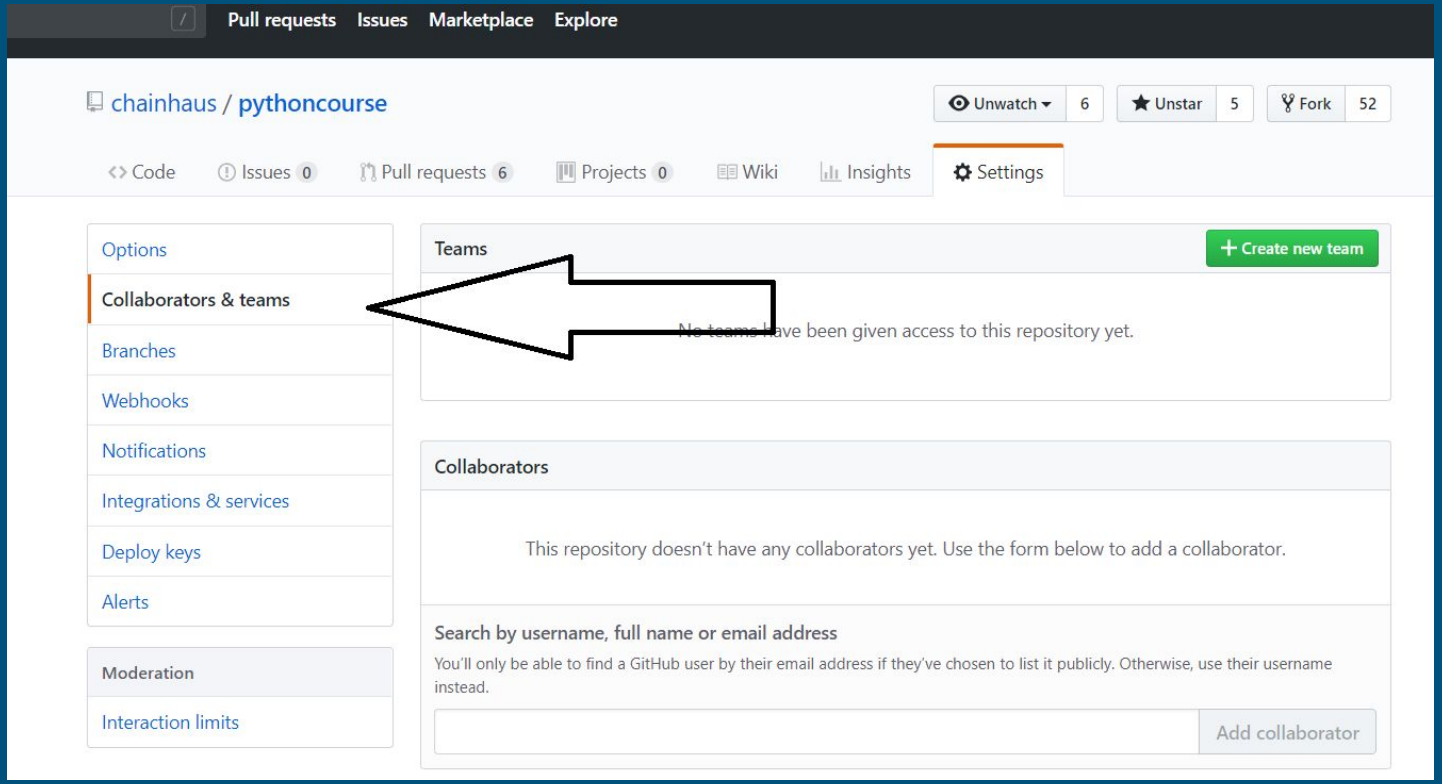
Your Github repo

- Request a student repo (Free) ASAP
- *** All repos related to this course must be private ***
  - Risk major disciplinary action
- Add me as a collaborator
  - My Github id is **jamiels**

Step Uno...


Pull requests
Issues
Marketplace
Explore
chainhaus / pythoncourse
Unwatch 6
Unstar 5
Fork 52
Code
Issues 0
Pull requests 6
Projects 0
Wiki
Insights
Settings
Python Course
Edit
Manage topics
31 commits
1 branch
0 releases
1 contributor
Branch: master
New pull request
Create new file
Upload files
Find file
Clone or download
jamiels Delete 08_assignment.py
Latest commit 78d2fdc 5 days ago
01_assignment.py
new branch
3 months ago

Dos...


Pull requests
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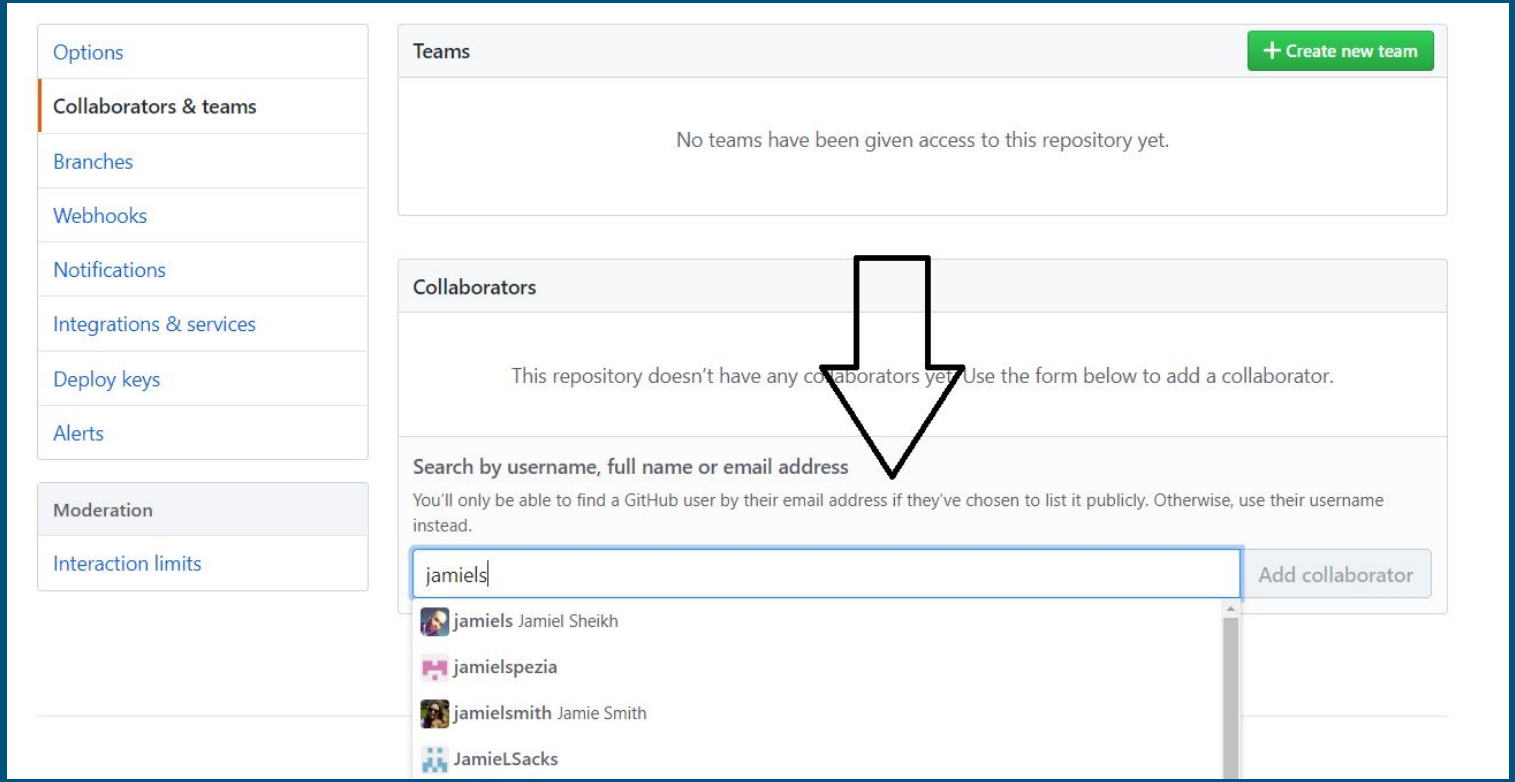
Fork 52
Code
Issues 0
Pull requests 6
Projects 0
Wiki
Insights
Settings
Options
Collaborators & teams
Branches
Webhooks
Notifications
Integrations & services
Deploy keys
Alerts
Moderation
Interaction limits
Teams
Create new team
No teams have been given access to this repository yet.
Collaborators
This repository doesn't have any collaborators yet. Use the form below to add a collaborator.
Search by username, full name or email address
You'll only be able to find a GitHub user by their email address if they've chosen to list it publicly. Otherwise, use their username instead.
Add collaborator

Tres..


Options
Collaborators & teams
Branches
Webhooks
Notifications
Integrations & services
Deploy keys
Alerts
Moderation
Interaction limits
Teams
+ Create new team
No teams have been given access to this repository yet.
Collaborators
This repository doesn't have any collaborators yet. Use the form below to add a collaborator.
Search by username, full name or email address
You'll only be able to find a GitHub user by their email address if they've chosen to list it publicly. Otherwise, use their username instead.
jamiels
Add collaborator
jamiels Jamiel Sheikh
jamielspezia
jamielsmith Jamie Smith
JamieLSacks

Meetings

- Alternate Wednesdays @ 7PM EST
- ...but on best effort
- ...and need basis
- ..because we have Slack
- Will try to do in-person in NYC

Syllabus is King

- Tell me
- Conflicting information

The Secret To This Course

- Have Fun
- Pace yourself
- Stuck? Ask for help
- Confused? Ask for help
- Falling behind? Ask for help
- Mastered it? Help others

Q&A

- Please ask questions that are broadly applicable (i.e. to other students)
- Environment issues (i.e. installing Python on your laptop) should be discussed offline