

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>







Jamiel Sheikh
CEO | Professor | Author ->
Blockchain | AI | Data
Science
[View full profile](#)

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2w • Edited




Thank you to all that came out to the Token Lecture Series. Comment below if you'd like digital version of presentations. I'll post link to it once its ready.


...see more



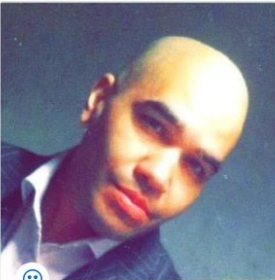
Time	Topic	Speaker
10:00 AM	Tokenized identity, insurance & crowdfunding	William
10:40 AM	How to tokenize real estate	Alan Don
11:20 AM	Token & Securities: Regulatory Challenges Beyond the Howey Test	Maureen
12:00 PM	Tokenizing Equity	Michael N
1:00 PM	How to issue tokens across chains	Nathan Y
1:40 PM	Tokenizing Debt	Michael S
2:20 PM	Security Tokens: Reexamining 50 years of financial services	Grace Schroeder
3:00 PM	The Future of Stablecoins	David M
3:40 PM	How to perform 500T analysis on STOs	Elton S
4:20 PM	Digital Assets: the third blockchain revolution	Todd M
5:00 PM	Using blockchain to automate VC terms in an STO Contract - a Cornell Tech Example	Joshua J

84 Likes · 42 Comments

 Like  Comment  Share

 13,027 views of your post in the feed

GitHub - <http://github.com/jamiels>



Set your status

Jamiel Sheikh
jamiels

★ PRO

ceo / quant / coder / data scientist /
adjunct professor / real estate
investor

Chainhaus
NYC
<http://chainhaus.com>

Edit

Overview Repositories 90 Stars 3 Followers 53 Following 1

Pinned repositories Customize your pinned repositories

≡ **plaza-ethereum**
Forked from ethereum/go-ethereum

Ethereum-based Platform For Real Estate Dapps

Go 1

≡ **ethereumj**
Forked from ethereum/ethereumj

Java implementation of the Ethereum yellowpaper

Java

≡ **bitcoin**
Forked from bitcoin/bitcoin

Bitcoin Core integration/staging tree

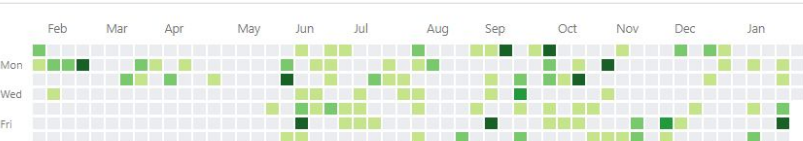
C++ 1

≡ **cakeshop**
Forked from jpmorganchase/cakeshop

An integrated development environment and SDK for
Ethereum-like ledgers

JavaScript

544 contributions in the last year Contribution settings ▼



Learn how we count contributions Less More

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

#general

☆ | 👤 175 | 🔒 88 | 📅 Fall 2018 - Welcome to DATA 602 - Check the pinned items for updates



[Spring 2017 | 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

December 13th, 2018



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



Q 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

- 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...

100% S % .0 .00 123v Arial 10 B I A [Icons]

	A	B	C	D	E	F	G	H	I	J	K	L
	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	Week											
2												
3	1	1/25/2019	1/31/2019	Getting Started	Pre-course Assessment			1		1/30/2019	7PM EST	
4	2	2/1/2019	2/7/2019	Python - Basics	Syllabus Quiz, 1	Introduction to Python for Data Science		2				
5	3	2/8/2019	2/14/2019	Python - Data Structures			10, 11, 12					
6	4	2/15/2019	2/21/2019	Python - Functions, Conditional Statements, Recursion	2		3, 5, 6, 7		1			
7	5	2/22/2019	2/28/2019	Python - Classes		Intermediate Python for Data Science	14, 15					
8	6	3/1/2019	3/7/2019	Python - More Classes	3		16, 17, 18					
9	7	3/8/2019	3/14/2019	Blockchain & Crypto				1, 2				
10	8	3/15/2019	3/21/2019	Matplotlib, Plotly	4	Introduction to Data Visualization	3, 4, 5					
11	9	3/22/2019	3/28/2019	Flask	5		6, 7, 8					
12	10	3/29/2019	4/4/2019	Numpy								
13	11	4/5/2019	4/11/2019	Pandas					12			
14	12	4/12/2019	4/18/2019	Advanced Pandas	6				2, 3			
15	13	4/19/2019	4/25/2019	Machine Learning					4, 5, 6			
16	14	4/26/2019	5/2/2019	More Machine Learning	7	Supervised Learning with scikit learn				10		
17	15	5/3/2019	5/9/2019	Databases & SQL	Post-course Assessment, 8							
18												
19												
20				Contact Info		Color Key						
21				jamiel sheikh@sps.cuny.edu		Completed week						
22				Slack http://chainhaus.slack.com - User ID @jamiel		Current week						
23				http://linkedin.com/in/jamiel		Subject to change						
24				Note: Content is subject to change		Not visible in BB yet						
25						Active deliverable						
26						Available						
27						Recently modified						

Installing Python

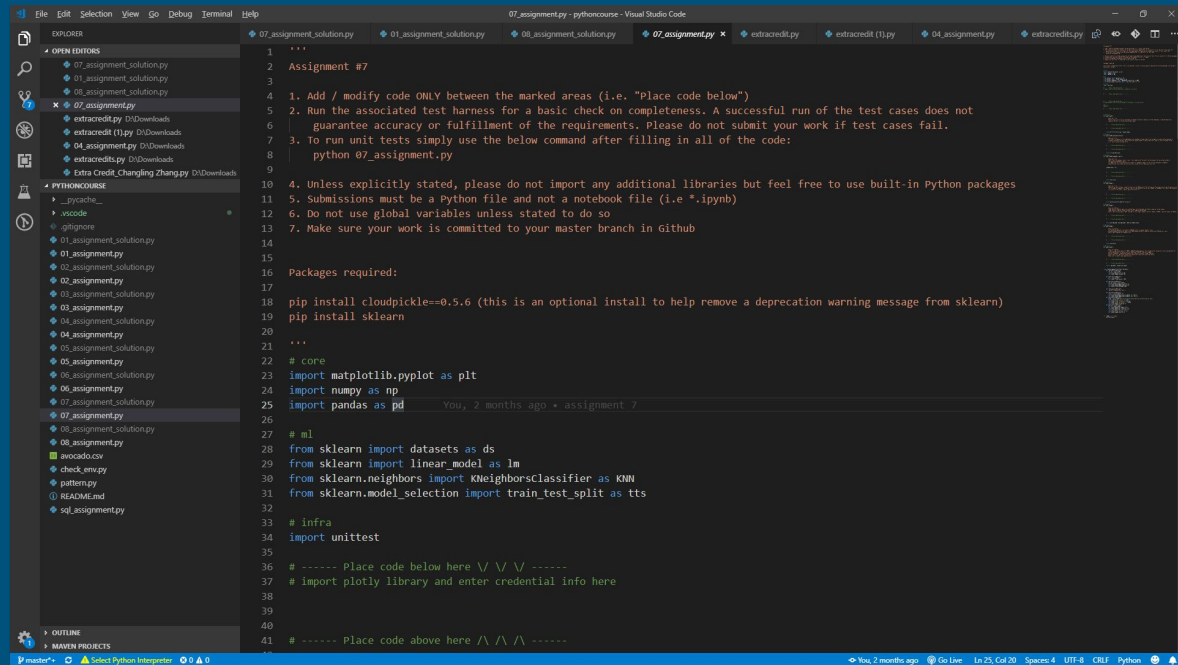
- Python 3.7.x
 - python -V
- CUNY VDI



```
Windows PowerShell
PS D:\pythoncourse> python -V
Python 3.7.1
PS D:\pythoncourse>
```

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...

The screenshot shows the GitHub interface for the repository 'chainhaus / pythoncourse'. At the top, there's a navigation bar with links for 'Pull requests', 'Issues', 'Marketplace', and 'Explore'. Below this, the repository name is displayed along with statistics: 6 Unwatch, 5 Unstar, and 52 Fork. A hand-drawn black arrow points to the 'Settings' tab in the repository navigation bar, which also includes 'Code', 'Issues 0', 'Pull requests 6', 'Projects 0', 'Wiki', and 'Insights'. Below the navigation bar, the repository name 'Python Course' is shown with an 'Edit' button. Underneath, there's a section for repository statistics: 31 commits, 1 branch, 0 releases, and 1 contributor. A row of buttons follows: 'Branch: master', 'New pull request', 'Create new file', 'Upload files', 'Find file', and a green 'Clone or download' button. The commit history section shows a commit by 'jamiels' titled 'Delete 08_assignment.py' from 5 days ago. Below the commit list, a file '01_assignment.py' is shown as a 'new branch' created '3 months ago'.

/ 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...

The screenshot shows the GitHub repository settings page for `chainhaus / pythoncourse`. The left sidebar contains a list of settings: Options, Collaborators & teams (highlighted with a large black arrow), Branches, Webhooks, Notifications, Integrations & services, Deploy keys, Alerts, Moderation, and Interaction limits. The main content area is divided into two sections: Teams and Collaborators. The Teams section has a header with a '+ Create new team' button and a message stating 'No teams have been given access to this repository yet.' The Collaborators section has a header and a message stating 'This repository doesn't have any collaborators yet. Use the form below to add a collaborator.' Below the message is a search bar with the placeholder text 'Search by username, full name or email address' and a button labeled 'Add collaborator'.

chainhaus / pythoncourse

Unwatch 6 Unstar 5 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..

The screenshot shows the GitHub repository settings page for a repository named 'Tres..'. The left sidebar contains a menu with the following items: Options, Collaborators & teams (highlighted with an orange bar), Branches, Webhooks, Notifications, Integrations & services, Deploy keys, and Alerts. Below this menu is a 'Moderation' section with 'Interaction limits'. The main content area is divided into two sections: 'Teams' and 'Collaborators'. The 'Teams' section has a '+ Create new team' button and a message: 'No teams have been given access to this repository yet.' The 'Collaborators' section has a message: 'This repository doesn't have any collaborators yet. Use the form below to add a collaborator.' Below this message is a search bar with the text 'Search by username, full name or email address' and a subtext: '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.' The search bar contains the text 'jamiels'. To the right of the search bar is an 'Add collaborator' button. Below the search bar is a list of search results, each with a profile picture, a username, and a full name: 'jamiels Jamiel Sheikh', 'jamielspezia', 'jamielsmith Jamie Smith', and 'JamielSacks'.

Options

- 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](#)

- 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