PYTHON 3  
  
Python 3 is the revamped iteration of the Python Programming language, which is typeless and easy-to-learn and increasingly ubiquitous programming language that supports different programming paradigms. See: [https://www.python.org/downloads/release/python-361/](https://l.facebook.com/l.php?u=https%3A%2F%2Fwww.python.org%2Fdownloads%2Frelease%2Fpython-361%2F&h=ATP5FYJS9qrObzfqcO49epi0mM-wTujGqMdaro2x-stUEtKWH8IU3rBj36wPDZgTr3os_mLCvaWyMK6vfPovuUJgkzZ9Xa11bAQT_dm8WFeQdM__h-iNe0NkojlAkjCWM08GukB3n0Nl) .  
  
Please also add Python 3 to the path (see: [https://docs.python.org/3.6/using/windows.html#configuring-python](https://l.facebook.com/l.php?u=https%3A%2F%2Fdocs.python.org%2F3.6%2Fusing%2Fwindows.html%23configuring-python&h=ATP5FYJS9qrObzfqcO49epi0mM-wTujGqMdaro2x-stUEtKWH8IU3rBj36wPDZgTr3os_mLCvaWyMK6vfPovuUJgkzZ9Xa11bAQT_dm8WFeQdM__h-iNe0NkojlAkjCWM08GukB3n0Nl))  
  
  
SUBLIME TEXT EDITOR 3  
  
Sublime Text Editor ([https://www.sublimetext.com/3](https://l.facebook.com/l.php?u=https%3A%2F%2Fwww.sublimetext.com%2F3&h=ATP5FYJS9qrObzfqcO49epi0mM-wTujGqMdaro2x-stUEtKWH8IU3rBj36wPDZgTr3os_mLCvaWyMK6vfPovuUJgkzZ9Xa11bAQT_dm8WFeQdM__h-iNe0NkojlAkjCWM08GukB3n0Nl)) is a highly configurable editor that can be tuned and configured for development in just about any language. Although it's commercial software, the free version has no loss of functionality or timed usage, and simply exists as nagware (i.e. a reminder that it's not free of pops up every now and then).  
  
To configure Sublime for Python, HTML, CS, and JS follow the instructions posted here (it also points to the site where the editor can be downloaded): [https://realpython.com/blog/python/setting-up-sublime-text-3-for-full-stack-python-development/](https://l.facebook.com/l.php?u=https%3A%2F%2Frealpython.com%2Fblog%2Fpython%2Fsetting-up-sublime-text-3-for-full-stack-python-development%2F&h=ATP5FYJS9qrObzfqcO49epi0mM-wTujGqMdaro2x-stUEtKWH8IU3rBj36wPDZgTr3os_mLCvaWyMK6vfPovuUJgkzZ9Xa11bAQT_dm8WFeQdM__h-iNe0NkojlAkjCWM08GukB3n0Nl)  
  
  
NOTEPAD++  
  
Since each editor has it's own learning curve, it's always good to have a basic editor (aside from Notepad) around that can assist with light editing, searching, and has basic syntax highlighting. One such example is Notepad++ ([https://notepad-plus-plus.org/](https://l.facebook.com/l.php?u=https%3A%2F%2Fnotepad-plus-plus.org%2F&h=ATP5FYJS9qrObzfqcO49epi0mM-wTujGqMdaro2x-stUEtKWH8IU3rBj36wPDZgTr3os_mLCvaWyMK6vfPovuUJgkzZ9Xa11bAQT_dm8WFeQdM__h-iNe0NkojlAkjCWM08GukB3n0Nl)).

Joe, using NOTEPAD++ you can read in, modify, and create code in basically any language, but you cannot compile/run the code without a compiler. So NOTEPAD++ is extremely useful  
  
  
PYCHARM

Download PyCharm student version if you have a .edu email address.   
PyCharm is an Integrated Development Environment (an IDE), that's specifically designed to work with the Python Programming language and some of it's more common frameworks. Unfortunately, the Community Edition is the one that can be accessed without an .edu address, and as such doesn't support those frameworks. (An interesting tidbit, the company that makes PyCharm is the same company that makes the Android Studio IDE, which Google has acquired and provided free of charge to the general public.)  
  
However, it's decent enough to work with general Python development and should cover some (but not all!) of the use cases for development (hence, why the recommendation for another editor). See: [https://www.jetbrains.com/pycharm/download/#section=windows](https://l.facebook.com/l.php?u=https%3A%2F%2Fwww.jetbrains.com%2Fpycharm%2Fdownload%2F%23section%3Dwindows&h=ATP5FYJS9qrObzfqcO49epi0mM-wTujGqMdaro2x-stUEtKWH8IU3rBj36wPDZgTr3os_mLCvaWyMK6vfPovuUJgkzZ9Xa11bAQT_dm8WFeQdM__h-iNe0NkojlAkjCWM08GukB3n0Nl)  
  
  
GIT  
  
It may be a good idea to introduce version control early on, so in case we do work with it, it's good to have git (a common version control tool used for managing different versions of a file throughout development), installed. (Interesting tidbit: this tool is the other famous creation of Linux Trovalds, who is best known for being the creator of the Linux kernel.)  
  
See: [https://git-scm.com/download/win](https://l.facebook.com/l.php?u=https%3A%2F%2Fgit-scm.com%2Fdownload%2Fwin&h=ATP5FYJS9qrObzfqcO49epi0mM-wTujGqMdaro2x-stUEtKWH8IU3rBj36wPDZgTr3os_mLCvaWyMK6vfPovuUJgkzZ9Xa11bAQT_dm8WFeQdM__h-iNe0NkojlAkjCWM08GukB3n0Nl) and please ensure that it's added to the PATH (see the section in PYTHON on how to do this.)  
  
That being said, also register for a BitBucket or GitLab account (since they have free private repositories, while GItHub does not with its free version).  
  
  
SSH  
  
Install Putty ([https://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html](https://l.facebook.com/l.php?u=https%3A%2F%2Fwww.chiark.greenend.org.uk%2F~sgtatham%2Fputty%2Flatest.html&h=ATP5FYJS9qrObzfqcO49epi0mM-wTujGqMdaro2x-stUEtKWH8IU3rBj36wPDZgTr3os_mLCvaWyMK6vfPovuUJgkzZ9Xa11bAQT_dm8WFeQdM__h-iNe0NkojlAkjCWM08GukB3n0Nl)), which is a GUI for SSH (i.e. Secure Shell, or encrypted shell connections) on Windows that allows for creating Secure Shell connections between computers, for when we create and use droplets from DigitalOcean.  
  
  
FILEZILLA  
  
This is a GUI frontend to allow for the transference of files to and from the sever (should we go that route) using the FTP (File Transfer Protocol) and SFTP (Secure File Transfer Protocol) protocols, and is more intuitive than doing so via the command line. Please visit and download the client version: [https://filezilla-project.org/](https://l.facebook.com/l.php?u=https%3A%2F%2Ffilezilla-project.org%2F&h=ATP5FYJS9qrObzfqcO49epi0mM-wTujGqMdaro2x-stUEtKWH8IU3rBj36wPDZgTr3os_mLCvaWyMK6vfPovuUJgkzZ9Xa11bAQT_dm8WFeQdM__h-iNe0NkojlAkjCWM08GukB3n0Nl)  
  
  
POSTMAN  
  
This is a Chrome application that provides a nice user interface to performing and testing various types of HTTP requests (GET, POST, etc.) - [https://chrome.google.com/webstore/detail/postman/fhbjgbiflinjbdggehcddcbncdddomop?hl=en](https://l.facebook.com/l.php?u=https%3A%2F%2Fchrome.google.com%2Fwebstore%2Fdetail%2Fpostman%2Ffhbjgbiflinjbdggehcddcbncdddomop%3Fhl%3Den&h=ATP5FYJS9qrObzfqcO49epi0mM-wTujGqMdaro2x-stUEtKWH8IU3rBj36wPDZgTr3os_mLCvaWyMK6vfPovuUJgkzZ9Xa11bAQT_dm8WFeQdM__h-iNe0NkojlAkjCWM08GukB3n0Nl)  
  
  
INFORMATIONAL VIDEOS  
  
Lastly, a couple informational videos that would be helpful in providing a foundation for general web development work (i.e. concepts, ideas, and general protocols used), are:   
  
1. Understanding how the web works, i.e. requests and HTTP protocols (9 mins: [https://www.youtube.com/watch?v=eesqK59rhGA](https://l.facebook.com/l.php?u=https%3A%2F%2Fwww.youtube.com%2Fwatch%3Fv%3DeesqK59rhGA&h=ATP5FYJS9qrObzfqcO49epi0mM-wTujGqMdaro2x-stUEtKWH8IU3rBj36wPDZgTr3os_mLCvaWyMK6vfPovuUJgkzZ9Xa11bAQT_dm8WFeQdM__h-iNe0NkojlAkjCWM08GukB3n0Nl))  
  
2. The client / server model - i.e. how web applications work (6 mins: [https://www.youtube.com/watch?v=L5BlpPU\_muY](https://l.facebook.com/l.php?u=https%3A%2F%2Fwww.youtube.com%2Fwatch%3Fv%3DL5BlpPU_muY&h=ATP5FYJS9qrObzfqcO49epi0mM-wTujGqMdaro2x-stUEtKWH8IU3rBj36wPDZgTr3os_mLCvaWyMK6vfPovuUJgkzZ9Xa11bAQT_dm8WFeQdM__h-iNe0NkojlAkjCWM08GukB3n0Nl))