What is the internet and how does it work? How do people make websites? What do I need to learn and how do I start? How can I turn these skills into a career?

These are all important questions that we are going to dive into at our meetup on March 13th, 2019 from 6:00 pm to 8:00 pm. This event is perfect for people who are looking to dive into the coding world but have no clue where to start.

\*Note: no computer/laptop is necessary

During this meetup you will LEARN:

- How the internet works

- Components of a website

- Basic coding terminology

- Coding languages you need to learn

- How to turn these skills into a career

- Write your first lines of code

\*Discounts to Hands-On Training

How the internet works – series of tubes

Began in 1969 on 4 host computer systems

Largest machine on earth (like the trees that have interconnected roots)

Hardware – cables, routers, servers, towers, satellites, computer/phone, wired and wireless

Endpoints – clients

Every computer is a server, and a server is just a computer with all the other functionality stripped away

Servers

Nodes are connection points along the way

Protocols – HTTP hypertext transfer protocol, establish rules for how information is passed so that one machine can find another

IP – internet protocol, the address of the machine (mail route) 32-bit numeric address

TCP – transmission control protocol

DNS – domain name system, maps a text name to an IP address [www.learnacademy.org](http://www.learnacademy.org) instead of 333.33.33.333 (4 numbers separated by a period)

127.0.0.1

DNS servers – converts the text name to an IP address

Top level domain names - .com, .gov, .org, .edu, .net every name within the top level must be unique

URL – uniform resource locator

Your computer’s (client) browser sends a request to a DNS server to get the IP address, the server gets the IP address and returns it to the browser, then the browser sends the IP address request to your ISP (internet service provider) which sends an HTTP request to the server where the info is stored, the server will send the requested file in packets of info (about 1000-1500 bytes) the packets may travel different paths but all eventually meetup and the computer will read the packets info and reassemble

What is coding?

Software engineer, programmer, developer, dev, are all usually interchangeable terms for people who create software

We use programming languages written by other people to create new software

Not writing in binary, not medical coding, not even CS (to a point)

Everyone uses technology and it is important that the people creating tech are representative of the people using it. It’s not a white guy in the basement industry anymore. Diversity in the people and their backgrounds is the only way the industry improves

I don’t think the entry way to tech should be so daunting. I don’t believe in making it some exculsie club that you have to be hazed into joining. Tech is hard, learning tech is hard. If you are willing to work hard and learn and grow and be vulnerable, I think that is enough. Lets not keep this information in some entitled box. I did it. Anyone can. It was hard and it still is hard. I have ups and downs all the time, but I know what taking that step was like and I want to help others do the same.