









# GIT Ahead

The development tutorial series to help you get an edge in a completive job market.



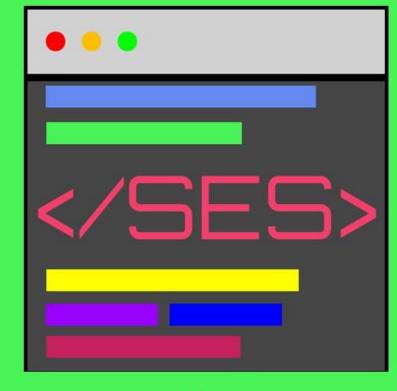








#### Presented by:



And

**Dev**Share

# DevShare

### // What is DevShare

An initiative to have developers share interesting and relevant topics, with their fellow students and developers

### //Today's Dev's



Kunal Shah
Sfwr-Eng V
Software Developer @IBM



Pavithran Pathmarjah Sfwr-Eng IV

# GIT Ahead

A two part workshop series

// Motivation?

By the end of these two weeks you'll have something like this

Checkout: <u>devshare.space/chat</u>

### // What you will learn

#### Today:

- GIT Basics
- GitHub Static Web Hosting
- Get a Domain
- Setup a DNS
- Basic UI with Bootstrap

### // What you will learn

#### Next Time:

- Microsoft Azure Webapps
- Web Sockets using Socket.io
- Node.js Server
- We'll make this chatapp work!
- Flex on literally **EVERYONE**

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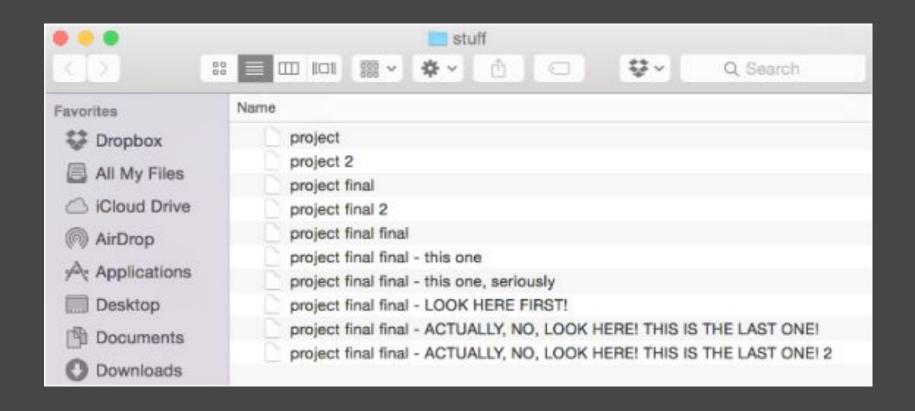
The secret to [GIT]ing ahead is [GIT]ing started

- Mark Twain

## // Agenda



# Part 1. Intro



### // What is git

- Distributed version control
- Coordinates work between multiple developers
- Who made what changes and when
- Revert back at any time
- Local and remote repos

<u>GitHub</u>, <u>BitBucket</u>, <u>GitLab</u>

## //What is git

- Keeps track of code history
- Takes a snapshot of your files
- Take a snapshot by committing your files
- Can go back and see any snapshot

Git Set up

### //How install GIT

#### MacOS

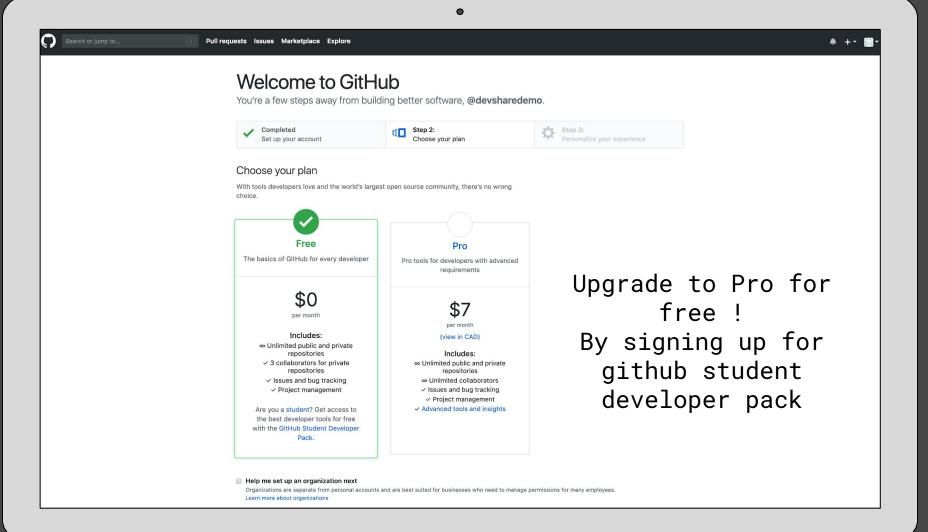
- Run the following command on Terminal
- O git --version

#### <u>Windows</u>

- Download and install <u>Git-Bash</u>
- O https://git-scm.com/downloads

#### <u>Github Desktop App</u>

Download and install <u>Github Desktop</u>



### //Install & Make Github Account

#### <u>Github</u>

Create an account: github.com

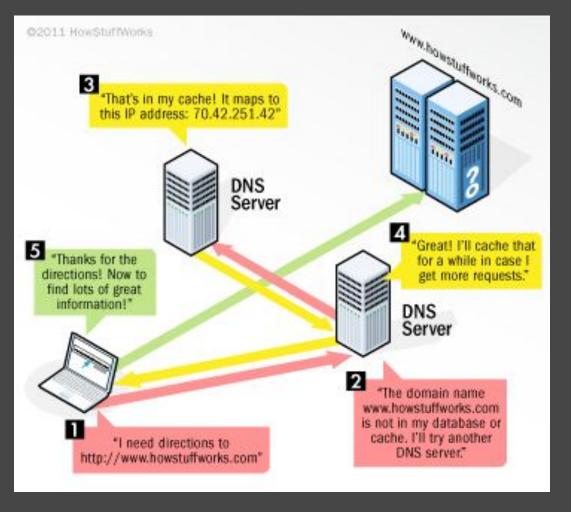
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- Run the following command on Terminal
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#### <u>Windows</u>

- Download and install <u>Git-Bash</u>
- https://git-scm.com/downloads

### // What is a Domain Name



### // Domains

Domain providers:
 Domain.com
 Namecheap
 GoDaddy
 Google Domains

### // Domains

Domain providers:
Domain.com
Namecheap
GoDaddy
Google Domains

### // Domain.com

```
1 Free Domain
   .com, .org, or .net
and 1 Year of Domain Privacy
```

Site: <a href="https://www.domain.com/mlh">www.domain.com/mlh</a>

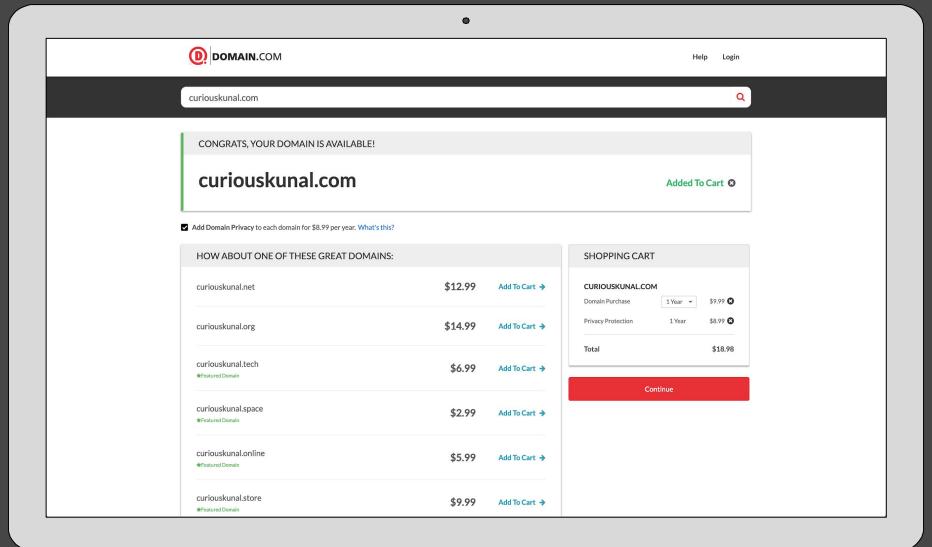
Promo Code: MLH2019

### // Namecheap

1 Free Domain
.me, with discounts for others

Site: nc.me

## Domains Set up



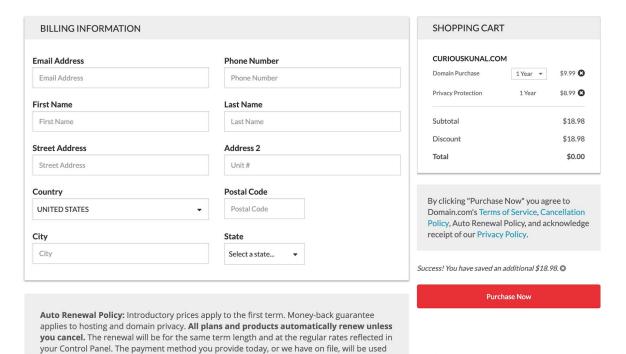


Help Login

← Back to domain add-ons

#### **BILLING & PAYMENT INFORMATION**

Already have a Domain.com account? Sign In!







Help Login

#### **CONGRATULATIONS**

#### YOUR ORDER IS COMPLETE

Thanks for your order! You will receive an email with details on how to activate your product.

Your account is currently being provisioned. This page will automatically refresh when your account is ready.

Go To Control Panel

#### ORDER DETAILS

Product	Product Price	Term Duration	Total Price
curiouskunal.com	\$9.99/yr	1 Year	\$0.00
Privacy Protection	\$8.99/yr	1 Year	\$0.00

Subtotal: \$18.98

Discount: \$18.98

Tax: \$0.00

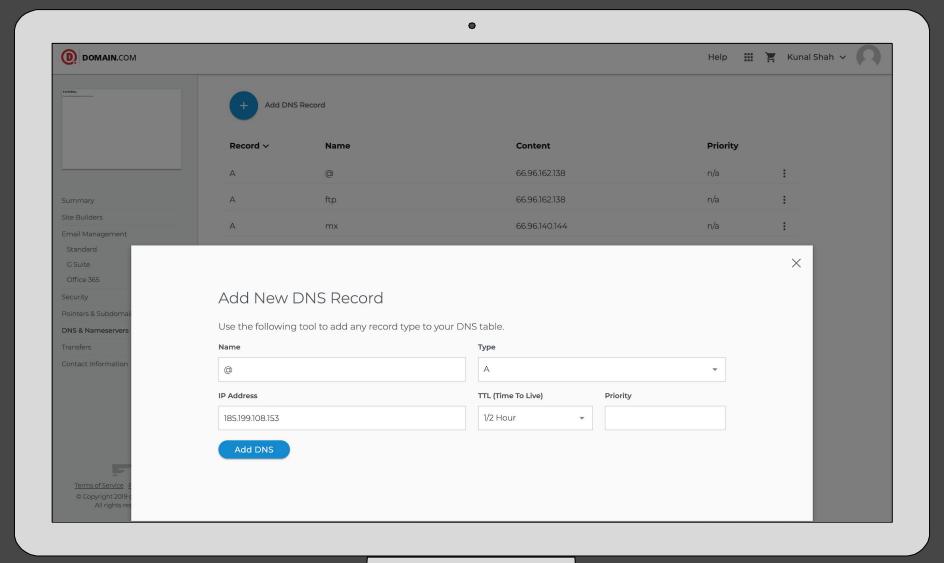
Total: \$0.00

<u>It all ctarte with a great domai</u>

Search for your next idea

### // Add Alias Records

- 185.199.108.153
- 185.199.109.153
- 185.199.110.153
- 185.199.111.153



### Common Git Commands

### // Git Commands

```
// Set Name and Email (need to only do this once)
git config --global user.name 'your-name'
git config --global user.email 'your-email'
// Clone Remote Repo
git clone <https://link>
```

#### // Git Commands

```
// add files to staging area
git add <file>
// check the status of the staging area
git status
// remove file from the staging area (undo git
add)
git reset <file>
// commit files to the repository
git commit -m "commit message"
```

### // Git Commands

```
// pull from remote server
git pull
```

// push your commits to the remote server
git push

### // Warning

Never git add, commit, or push sensitive information to a remote repository.

Sensitive information can include, but is not limited to:

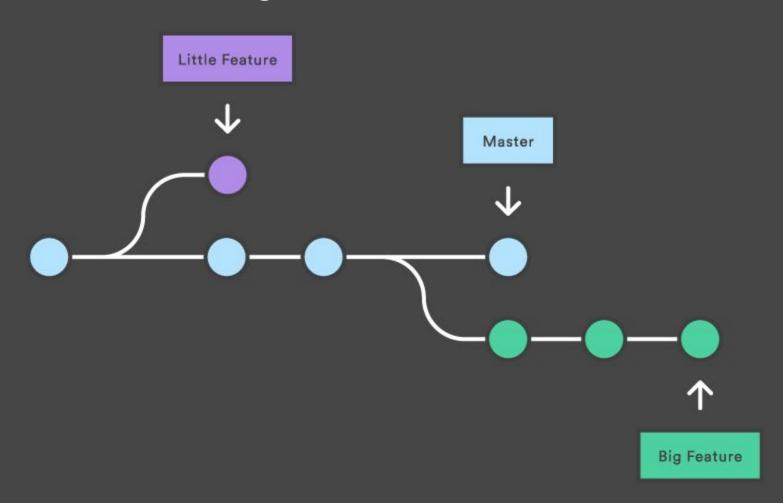
- Passwords
- SSH keys
- AWS access keys
- PIN numbers

- API keys
- Credit card numbers
- Cryptocurrency Wallets

### **//**Git Ignore

- gitignore file
- Allows you to have files that can't be added to the staging area unless you really want to

# // Branching



# // Branching

```
// branch
git branch <branch name>
// change to branch
git checkout <br/>branch name>
// change to branch
git merge <br/> <br/>branch name>
```

# Part 2. Hosting

# // Github Pages

- 1. Create Repo Called:
   username.github.io
- 2. add, commit and push index.html
- 3. Set github pages source
- 4. configure custom domain

# Part 3. The Looks

Using Web Frameworks to make a good looking site FAST

# // TONS of different styles

- Plain
  - <a href="https://justinjackson.ca/words.html">https://justinjackson.ca/words.html</a>
  - https://www.balenciaga.com
- Common/Small Scale
  - https://wire.com/en/
  - http://www.clearmotion.com/
  - https://www.paradiso.nl/en/
- I'm not actually sure
  - https://pinupmagazine.org/
  - https://3dro.ps/

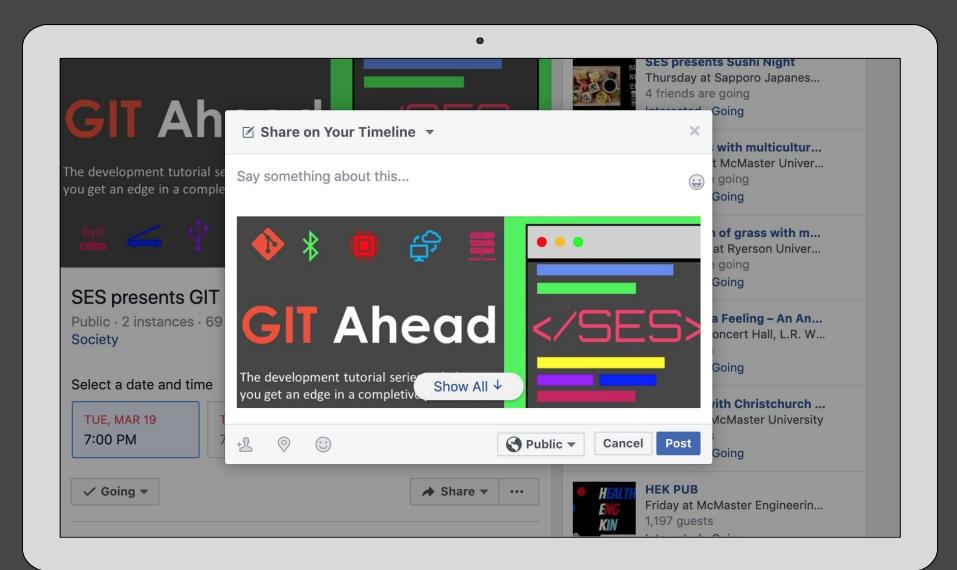
### //Our Focus common/small scale

- A website that performs a few tasks if any
  - Not "Google.com"
  - Not "Facebook.com"

Typically a single page, can be more

# // Common Web-Design Components

- Modals
- Cards
- Responsive Design
  - Hamburger Menus
  - Mobile First
- Flat Design
- Typography





#### Our Team

#### Saad Khan

I have always had an interest in new technology, even as a kid. I wanted to work in a field that let me work with new and emerging technology. Since a lot of industries are moving towards software and automation it just made sense for me to go into Software Engineering

in ©



Jacob Gordon-Zarankin

-VP FINANCE-

SFWR ENG III



Marlee Roth

-VP MARKETING-

SFWR ENG & CO-OP IV



Alexie McDonald

-VP EXTERNAL-

SFWR ENG & MNGMT III



Rehan Theiveehathasan

-VP ADMIN-

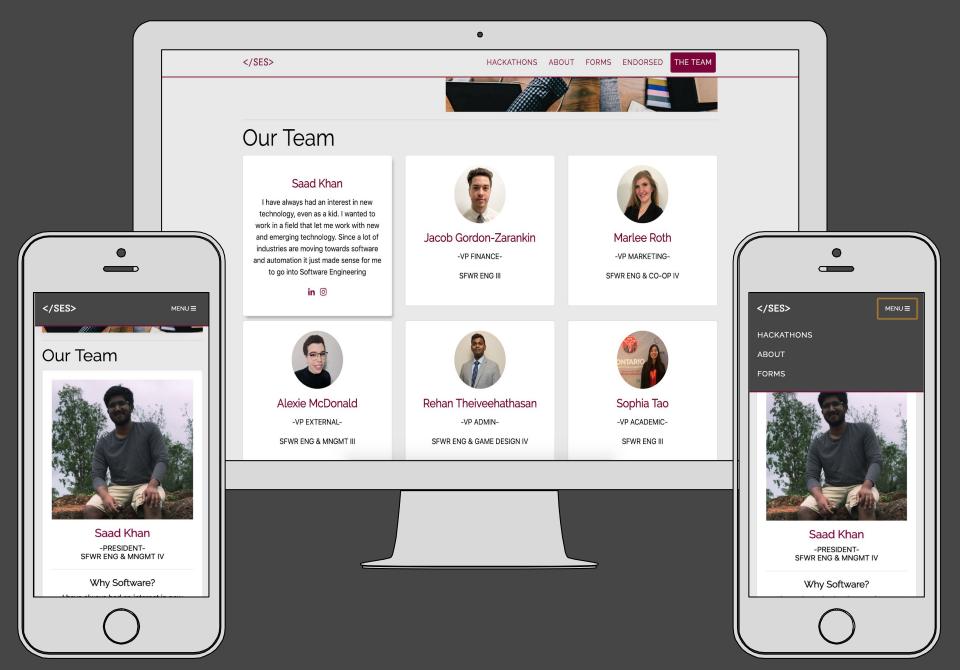
SFWR ENG & GAME DESIGN IV



Sophia Tao

-VP ACADEMIC-

SFWR ENG III





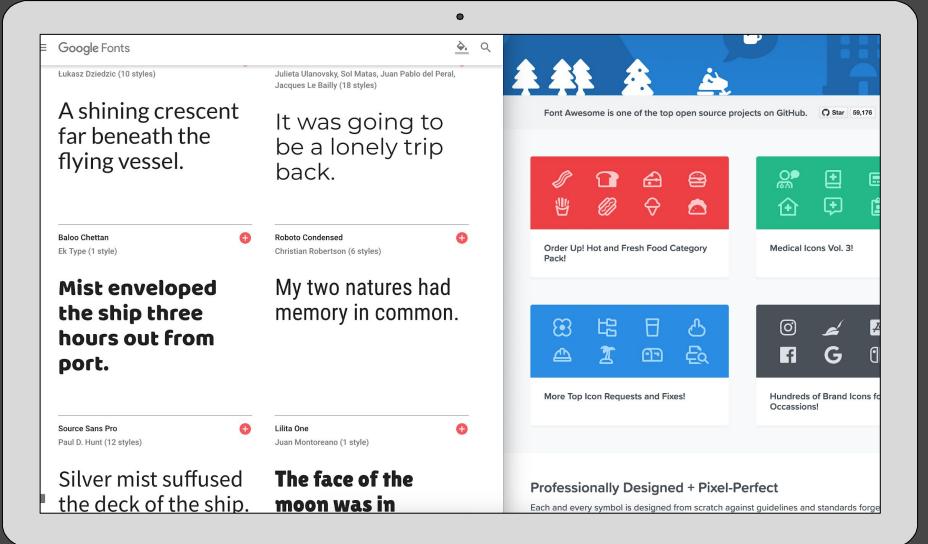
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VS

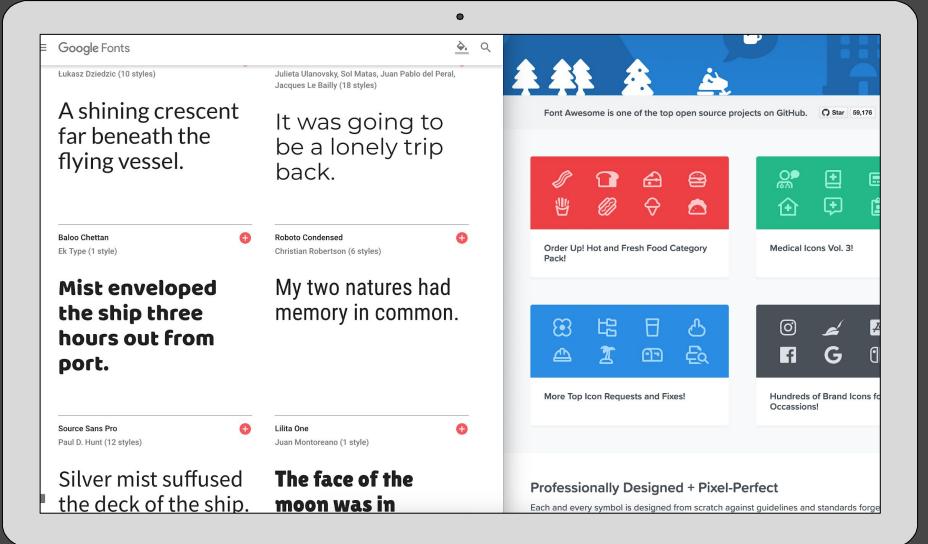
Flat

**DESIGN** 





# Our Design



### HTML & CSS

### //HTML vs CSS

Hypertext Markup Language (HTML)

 A markup language to tell the browser what it's looking at, weather it be text, pictures sound a video

Cascading Style Sheet

- A literal sheet of statements
- That provides the browser with instructions on how to style HTML

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ere a large group of people engage in collaborative programming. The event usually takes place over the course of the weekend lasting 24 - 36 hours. Typically hosted by a university with many industry sponsors and prizes, encolor lop innovative solutions for real problems.

#### icipate?

AG (Stuff We All Get) and an excuse to travel! If this is not enough of a reason, hackathons are amazing experiences to apply what you've learned, pick up new skills and NETWORK! These competitions are free and we offer to so there is no real reason not to participate.

on on MLH

#### THE SES

ngineering Society is a committee that works to make your experience and the software engineering program at McMaster the best it can be! We regularly plan events that allow you to network with your fellow students and, profents that help you gain a better understanding of the field. If you are looking to get involved or meet other people in your faculty then we are here for you!

e any comments, concerns or requests let us know! We can help put together a workshop, talk to the software engineering professors and make sure your voice is heard. So reach out to us and get involved!

</SES>

HACKATHONS

ABOUT FORMS ENDORSED THE TEAM

#### **HACKATHONS**

—</SES>—

#### What is it?

It is an event where a large group of people engage in collaborative programming. The event usually takes place over the course of the weekend lasting 24 - 36 hours. Typically hosted by a university with many industry sponsors and prizes, encouraging students to develop innovative solutions for real problems.

#### Why Participate?

Free FOOD, SWAG (Stuff We All Get) and an excuse to travel! If this is not enough of a reason, hackathons are amazing experiences to apply what you've learned, pick up new skills and NETWORK! These competitions are free and we offer travel reimbursements so there is no real reason not to participate.

Find a Hackathon on MLH

#### WHAT IS THE SES

The Software Engineering Society is a committee that works to make your experience and the software engineering program at McMaster the best it can be! We regularly plan events that allow you to network with your fellow students and, professional development events that help you gain a better understanding of the field. If you are looking to get involved or meet other





### HTML - THE BARE MINIMUM

### // HTML - THE BARE MINIMUM

- Tags: Used by the browser to identify what type of thing it's looking at and identifies the start and ending of it
- Basic Tags:
  - <head>
  - <title>
  - <body>
  - <h1> <h6>, , <a>, <br>, <hr>
  - <div>
- Recommendation: <u>w3schools</u>

### CSS - THE BARE MINIMUM

### // CSS - THE BARE MINIMUM

- Selector: Tells the browser what HTML these properties effect
- Property: Predefined actions that CSS can modify
- Value: The value to set that property to

```
EX: h1 { color:red; }
```

- Recommendation: <u>w3schools</u>

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Don't reinvent the wheel, just realign it.

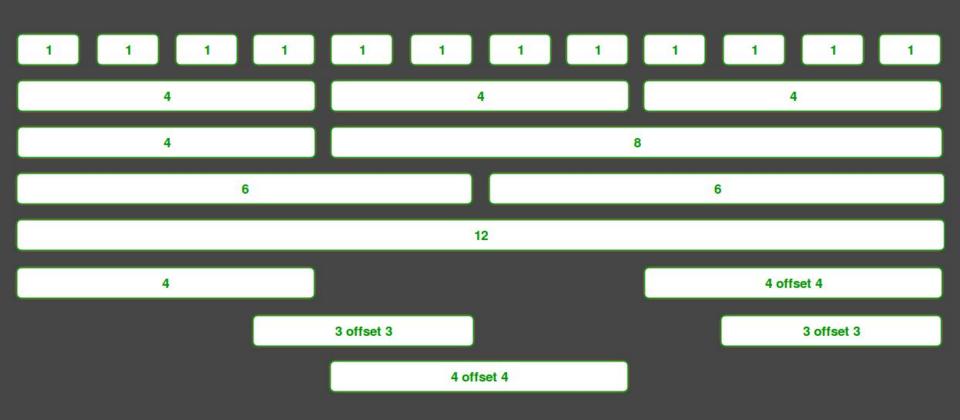
- Anthony J. D'Angelo

### //Frameworks

- <u>Bootstrap</u>
- Pure.css
- <u>UIKit</u>
- Foundation
- <u>Materialize</u>

# Bootstrap

# // Grid System



### // Bootstrap

```
To get started:
<a href="https://getbootstrap.com/">https://getbootstrap.com/</a>
```

To go quickly: Templates
https://startbootstrap.com
https://themewagon.com

### //Until Next Time

- Look into HTML/CSS/Bootstrap
- Make your chat app look amazing!

 Then next time we'll make it all work and start doing some javascript