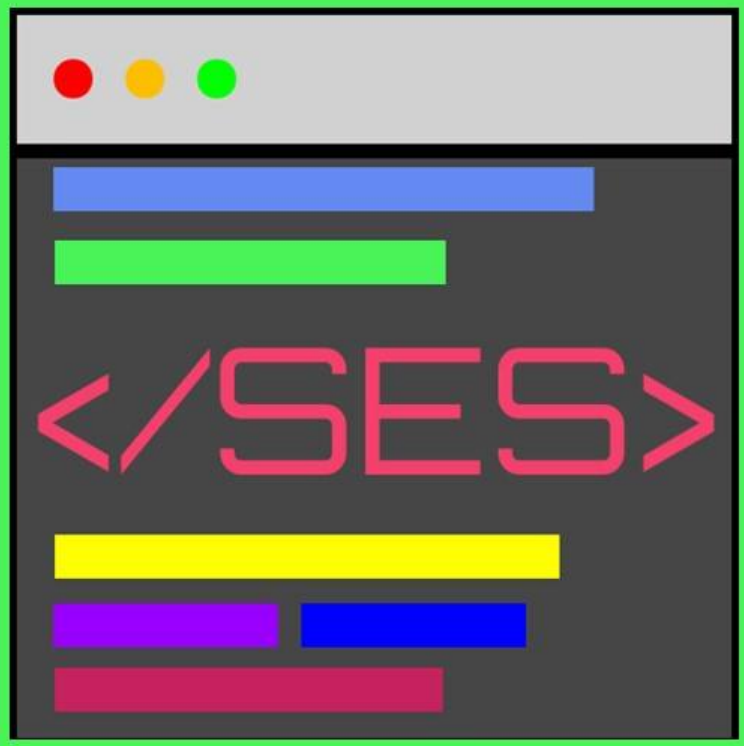
GIT Ahead

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

Presented by:



And

DevShare

DevShare

// What is **Dev**Share

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: *devshare.space/chat*

// 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**

// Follow along

Get the slides

Slides: *devshare.space/slides*

“

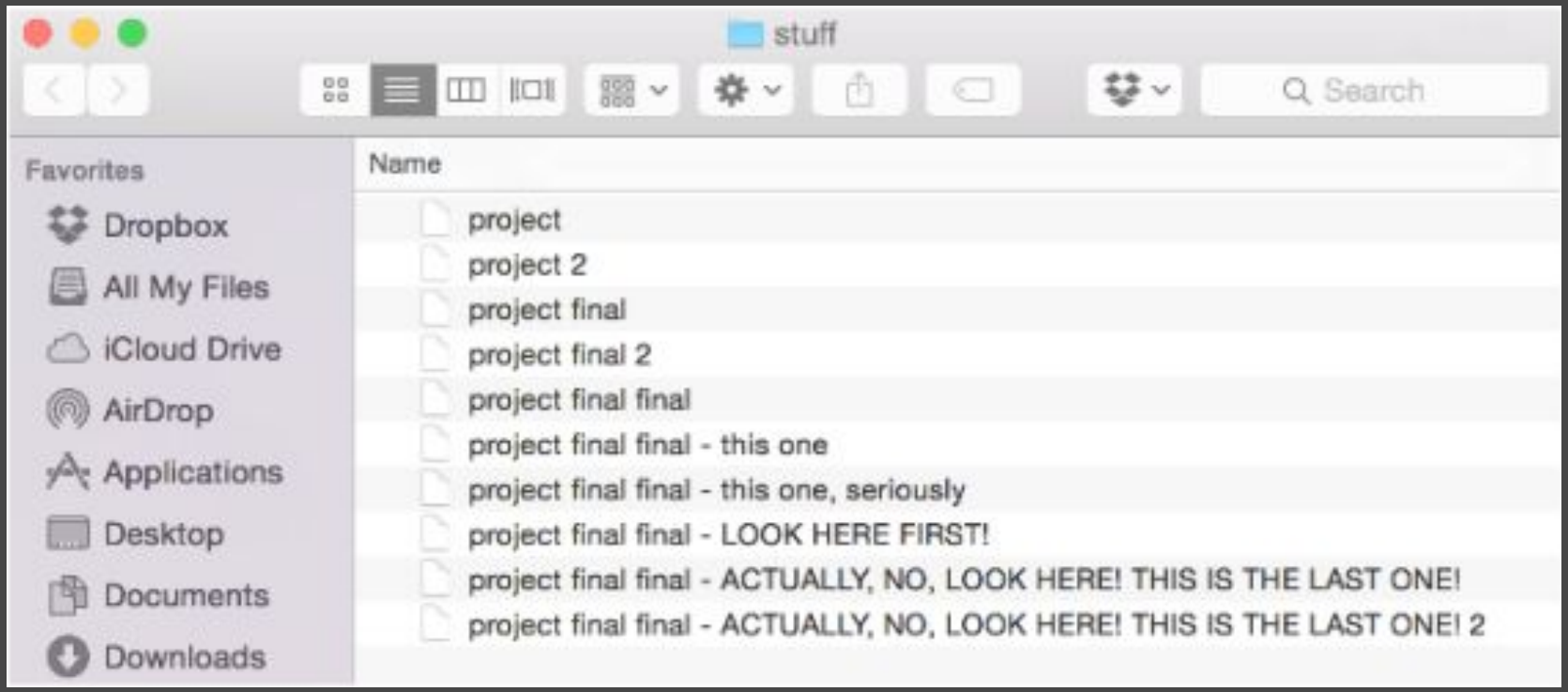
The secret to [GIT]ing ahead is [GIT]ing started

- Mark Twain

// Agenda

Part 1.

Intro


stuff
Search
Favorites
Dropbox
All My Files
iCloud Drive
AirDrop
Applications
Desktop
Documents
Downloads
Name
project
project 2
project final
project final 2
project final final
project final final - this one
project final final - this one, seriously
project final final - LOOK HERE FIRST!
project final final - ACTUALLY, NO, LOOK HERE! THIS IS THE LAST ONE!
project final final - ACTUALLY, NO, LOOK HERE! THIS IS THE LAST ONE! 2

// 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

GitHub , BitBucket , GitLab

// 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

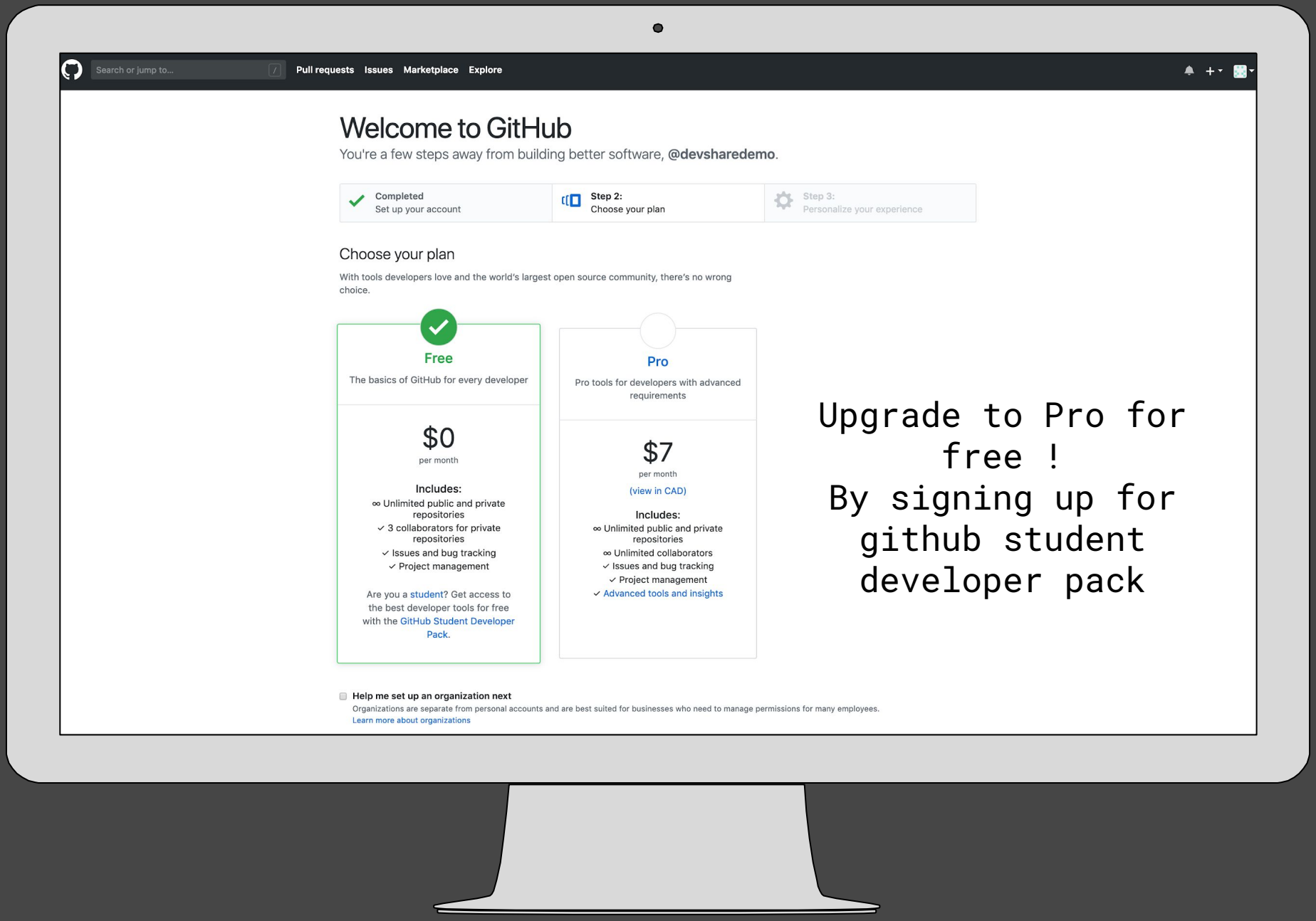
- Run the following command on Terminal
- `git --version`

Windows

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

Github Desktop App

- Download and install Github Desktop



Upgrade to Pro for free !
By signing up for github student developer pack

// Install & Make Github Account

Github

- Create an account: github.com

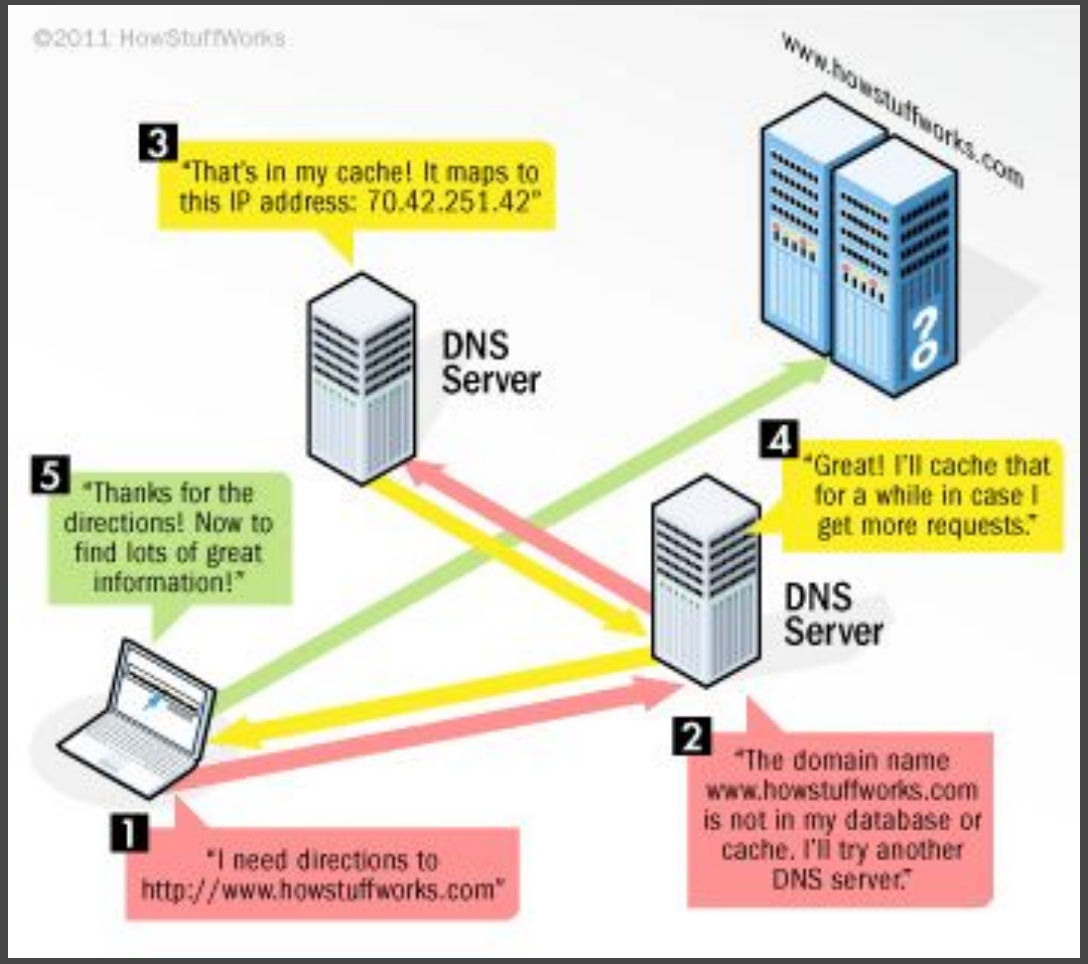
MacOS

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

Windows

- Download and install Git-Bash
- 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

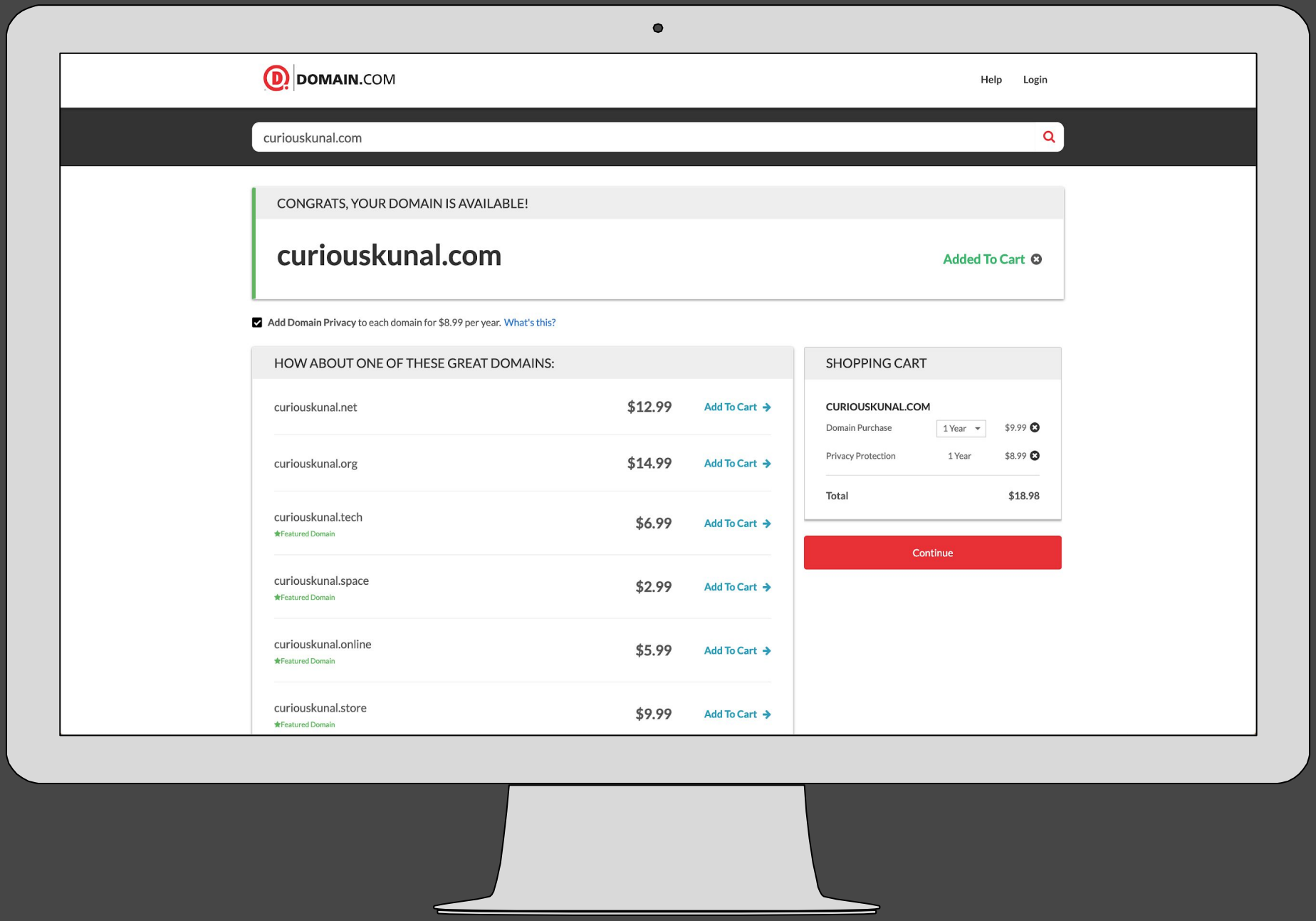
Site: www.domain.com/mlh
Promo Code: MLH2019

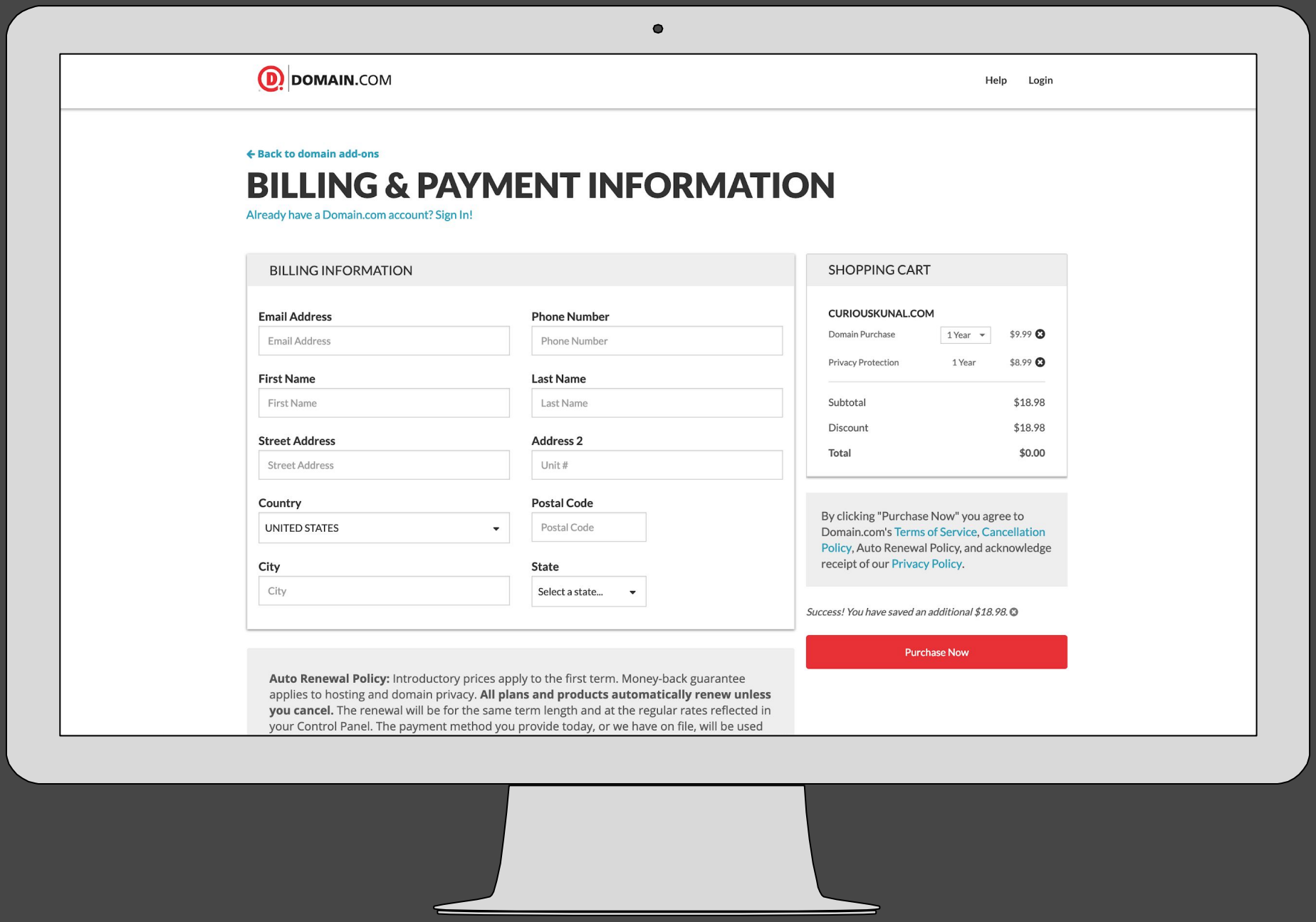
// Namecheap

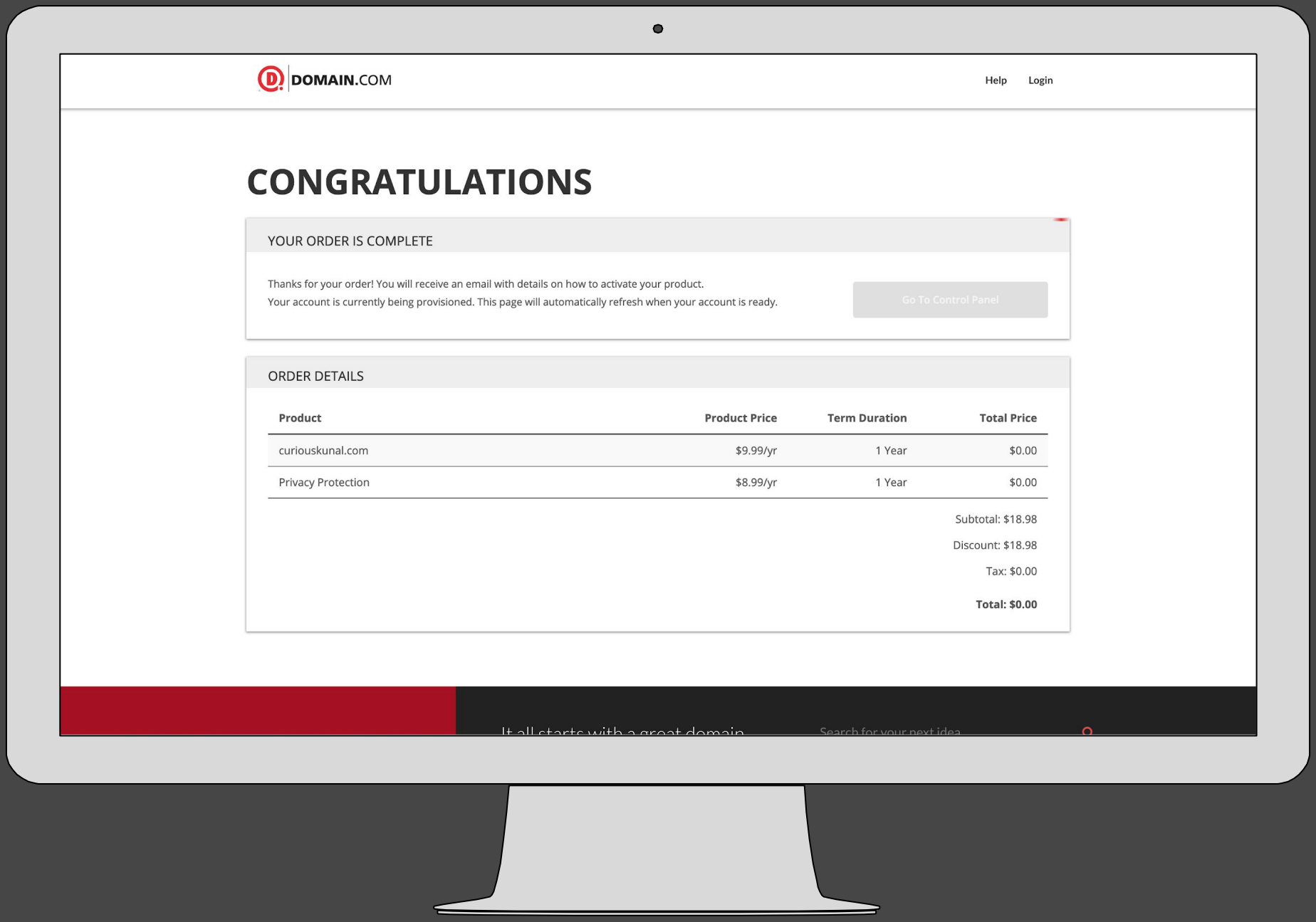
1 Free Domain
.me,with discounts for others

Site: nc.me

Domains Set up

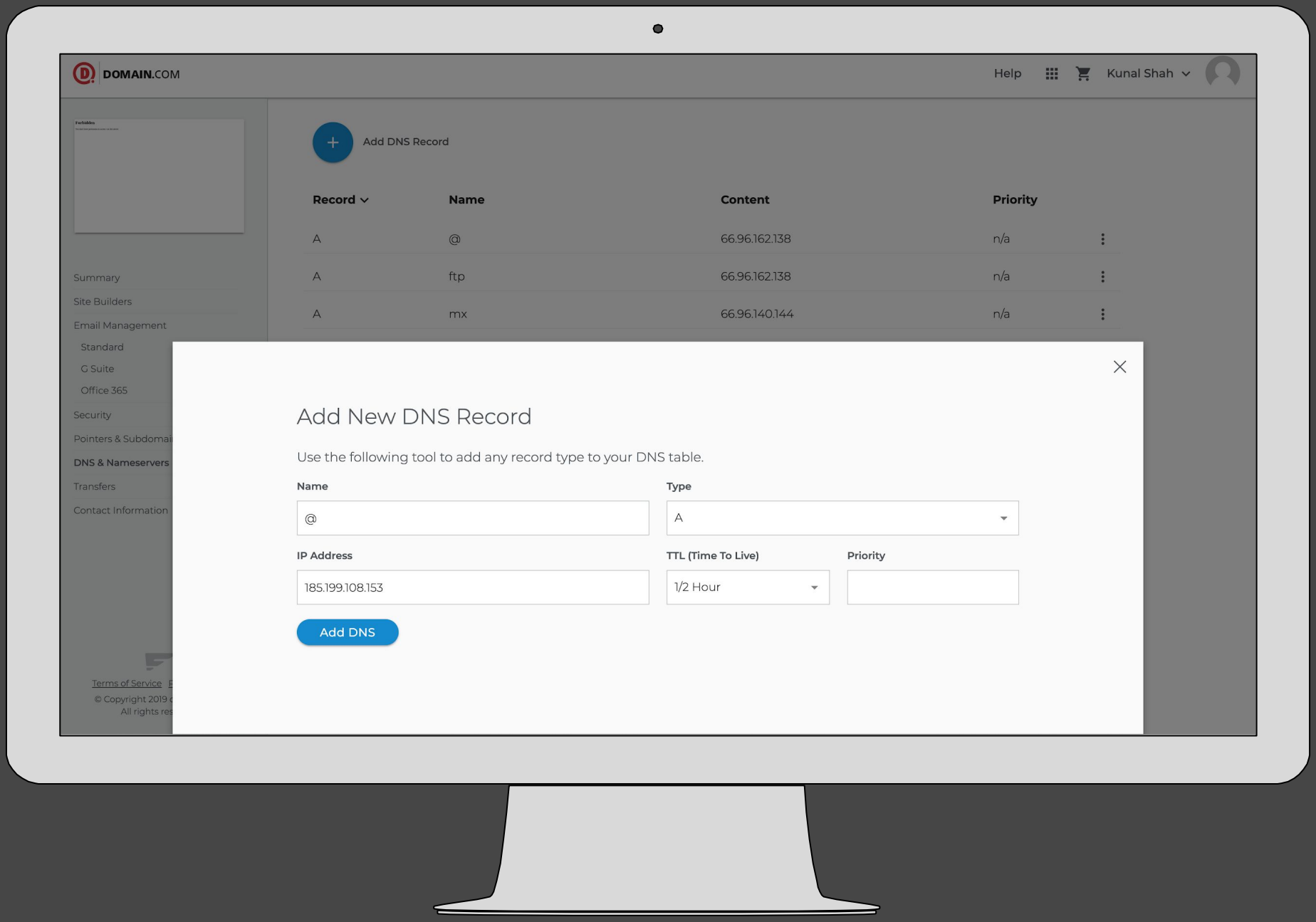

DOMAIN.COM
Help
Login
curiouskunal.com
CONGRATS, YOUR DOMAIN IS AVAILABLE!
curiouskunal.com
Added To Cart
Add Domain Privacy to each domain for $8.99 per year. What's this?
HOW ABOUT ONE OF THESE GREAT DOMAINS:
curiouskunal.net $12.99 Add To Cart
curiouskunal.org $14.99 Add To Cart
curiouskunal.tech Featured Domain $6.99 Add To Cart
curiouskunal.space Featured Domain $2.99 Add To Cart
curiouskunal.online Featured Domain $5.99 Add To Cart
curiouskunal.store Featured Domain $9.99 Add To Cart
SHOPPING CART
CURIOUSKUNAL.COM
Domain Purchase 1 Year $9.99
Privacy Protection 1 Year $8.99
Total $18.98
Continue


DOMAIN.COM
Help
Login
← Back to domain add-ons
BILLING & PAYMENT INFORMATION
Already have a Domain.com account? Sign In!
BILLING INFORMATION
Email Address
Email Address
Phone Number
Phone Number
First Name
First Name
Last Name
Last Name
Street Address
Street Address
Address 2
Unit #
Country
UNITED STATES
Postal Code
Postal Code
City
City
State
Select a state...
Auto Renewal Policy: Introductory prices apply to the first term. Money-back guarantee applies to hosting and domain privacy. All plans and products automatically renew unless you cancel. The renewal will be for the same term length and at the regular rates reflected in your Control Panel. The payment method you provide today, or we have on file, will be used
SHOPPING CART
CURIOUSKUNAL.COM
Domain Purchase
1 Year
$9.99
Privacy Protection
1 Year
$8.99
Subtotal
$18.98
Discount
$18.98
Total
$0.00
By clicking "Purchase Now" you agree to Domain.com's Terms of Service, Cancellation Policy, Auto Renewal Policy, and acknowledge receipt of our Privacy Policy.
Success! You have saved an additional $18.98.
Purchase Now


DOMAIN.COM
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
It all starts with a great domain
Search for your next idea

// Add Alias Records

185.199.108.153
185.199.109.153
185.199.110.153
185.199.111.153


DOMAIN.COM
Help
Kunal Shah
Add DNS Record
Record
Name
Content
Priority
A
@
66.96.162.138
n/a
A
ftp
66.96.162.138
n/a
A
mx
66.96.140.144
n/a
Summary
Site Builders
Email Management
Standard
G Suite
Office 365
Security
Pointers & Subdomai
DNS & Nameservers
Transfers
Contact Information
Terms of Service
Add New DNS Record
Use the following tool to add any record type to your DNS table.
Name
@
Type
A
IP Address
185.199.108.153
TTL (Time To Live)
1/2 Hour
Priority
Add DNS

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.

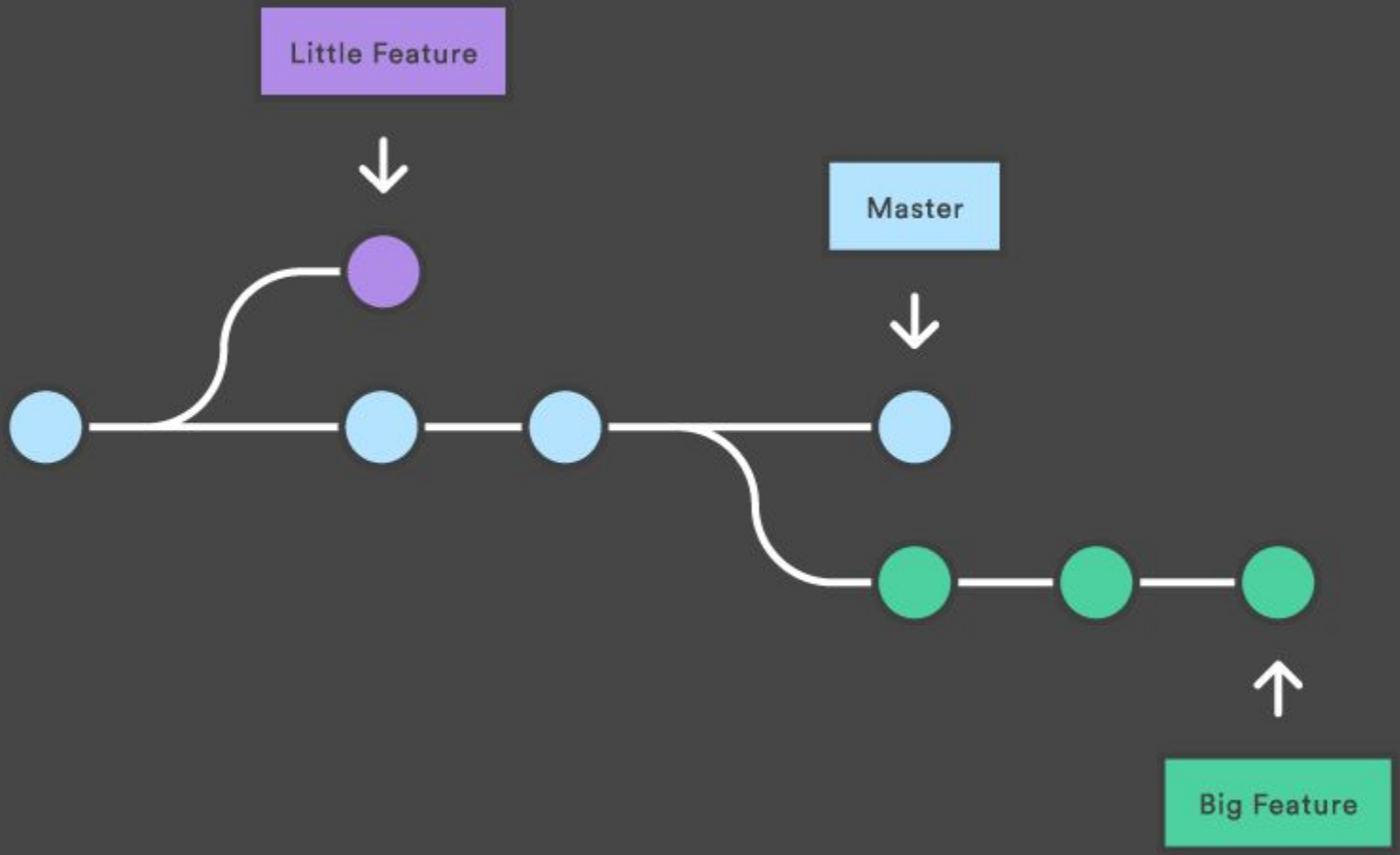
Sensitive information can include, but is not limited to:

- 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 <branch name>

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

Part 2.

Hosting

// Github Pages Web Hosting

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
  - https://justinjackson.ca/words.html
  - 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/

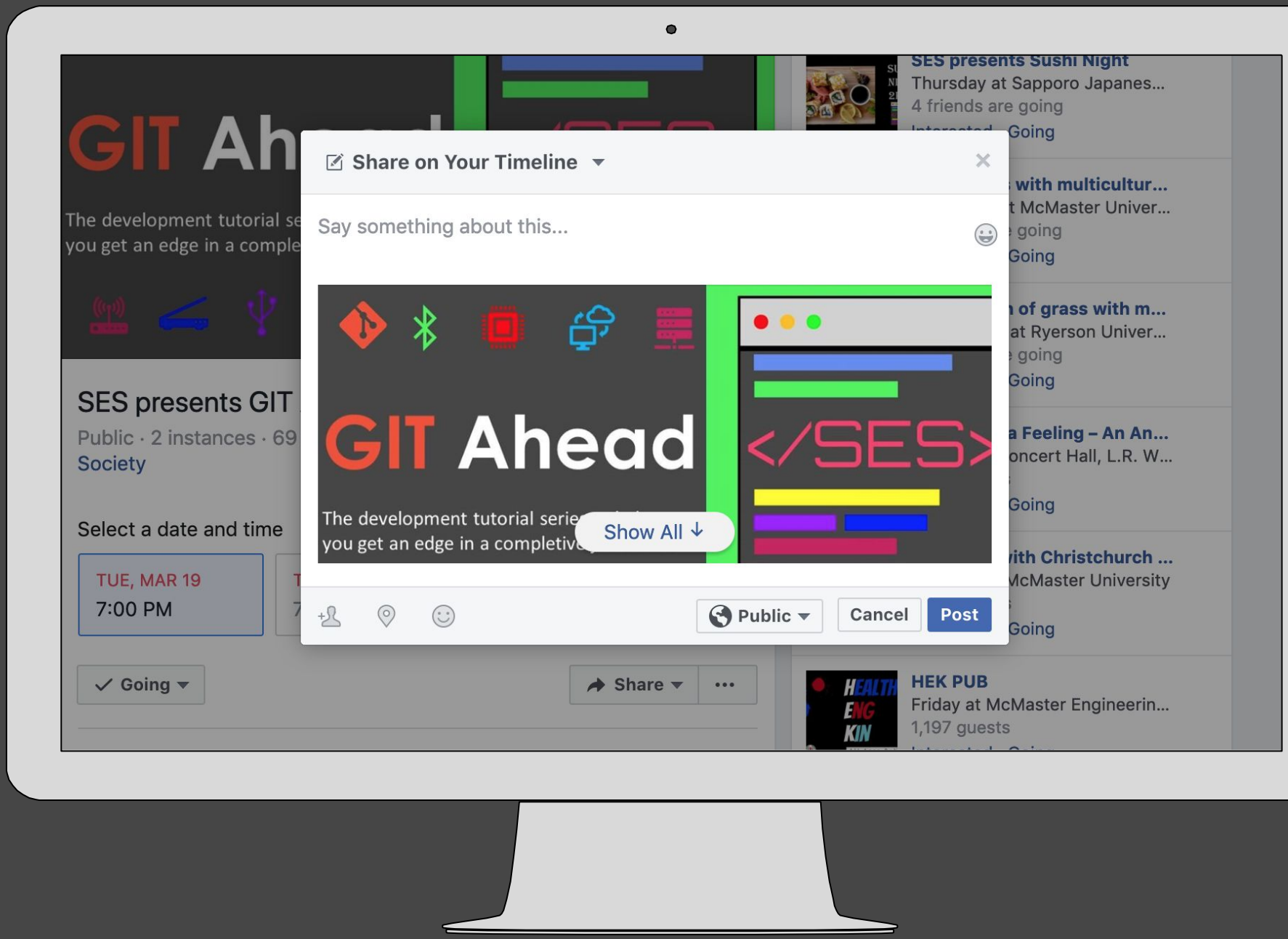
// Our Focus common/small scale

- 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


GIT Ah
The development tutorial se
you get an edge in a comple
SES presents GIT
Public · 2 instances · 69
Society
Select a date and time
TUE, MAR 19
7:00 PM
Going
Share
Share on Your Timeline
Say something about this...
GIT Ahead
</SES>
The development tutorial serie
you get an edge in a completiv
Show All
Public
Cancel
Post
SES presents Sushi Night
Thursday at Sapporo Japanes...
4 friends are going
Going
with multicultur...
t McMaster Univer...
going
Going
of grass with m...
at Ryerson Univer...
going
Going
a Feeling – An An...
oncert Hall, L.R. W...
Going
ith Christchurch ...
McMaster University
Going
HEK PUB
Friday at McMaster Engineerin...
1,197 guests

</SES>

HACKATHONS ABOUT FORMS ENDORSED THE TEAM

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

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

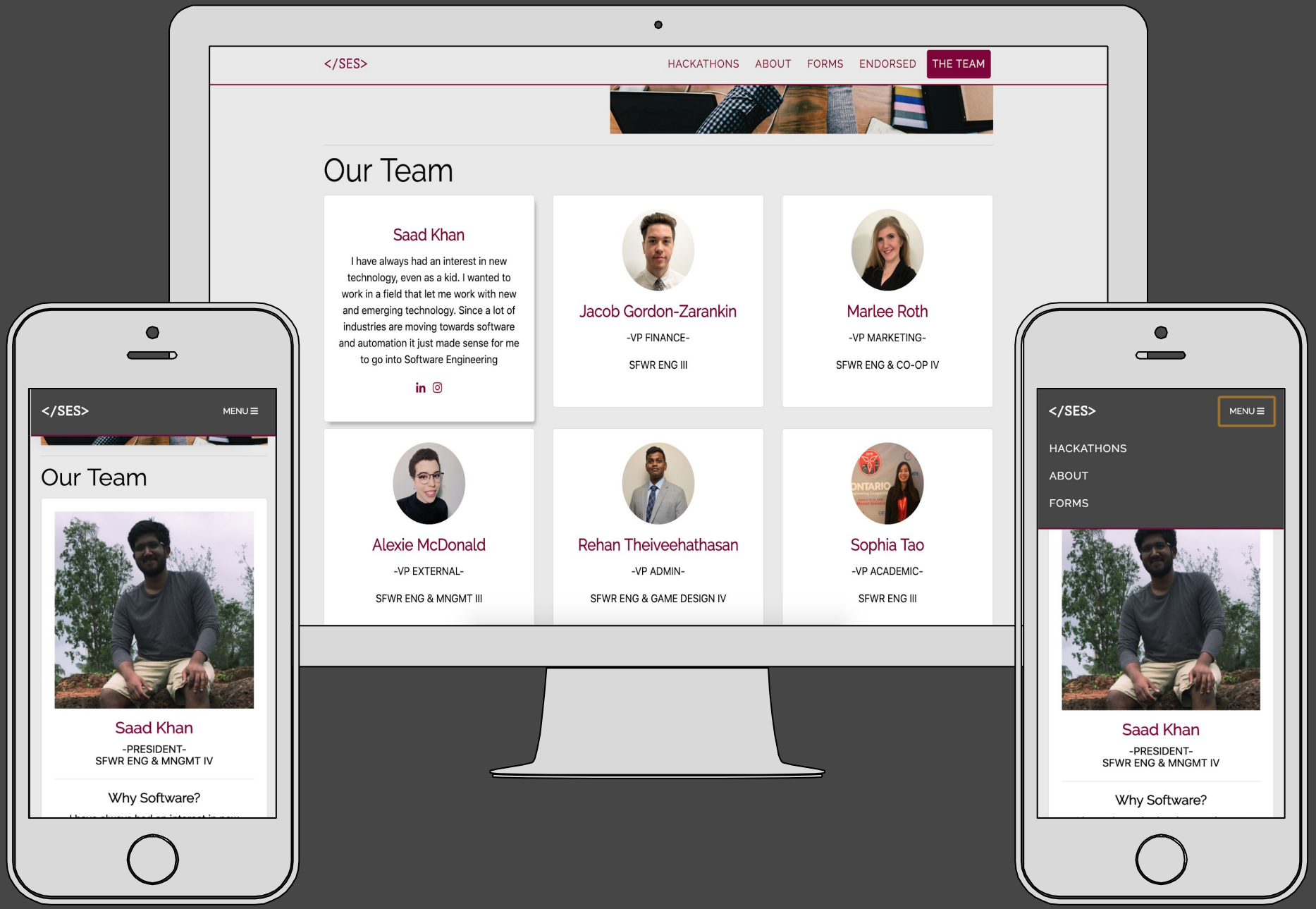
-VP ADMIN-

SFWR ENG & GAME DESIGN IV

Sophia Tao

-VP ACADEMIC-

SFWR ENG III


</SES>
HACKATHONS
ABOUT
FORMS
ENDORSED
THE TEAM
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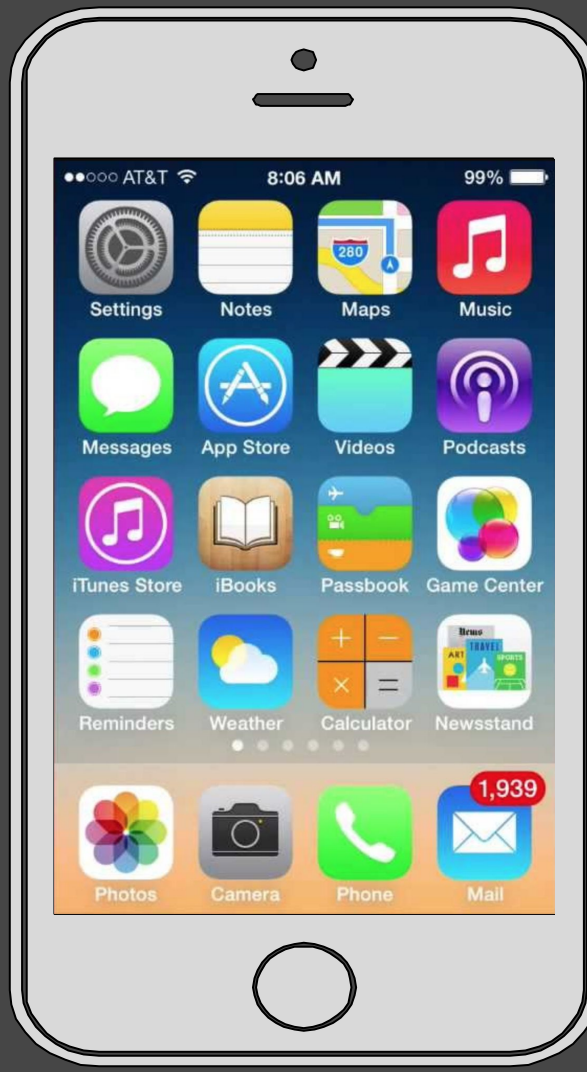
-VP ADMIN-
SFWR ENG & GAME DESIGN IV
Sophia Tao
-VP ACADEMIC-
SFWR ENG III
</SES>
MENU
Our Team
Saad Khan
-PRESIDENT-
SFWR ENG & MNGMT IV
Why Software?
</SES>
MENU
HACKATHONS
ABOUT
FORMS
Saad Khan
-PRESIDENT-
SFWR ENG & MNGMT IV
Why Software?

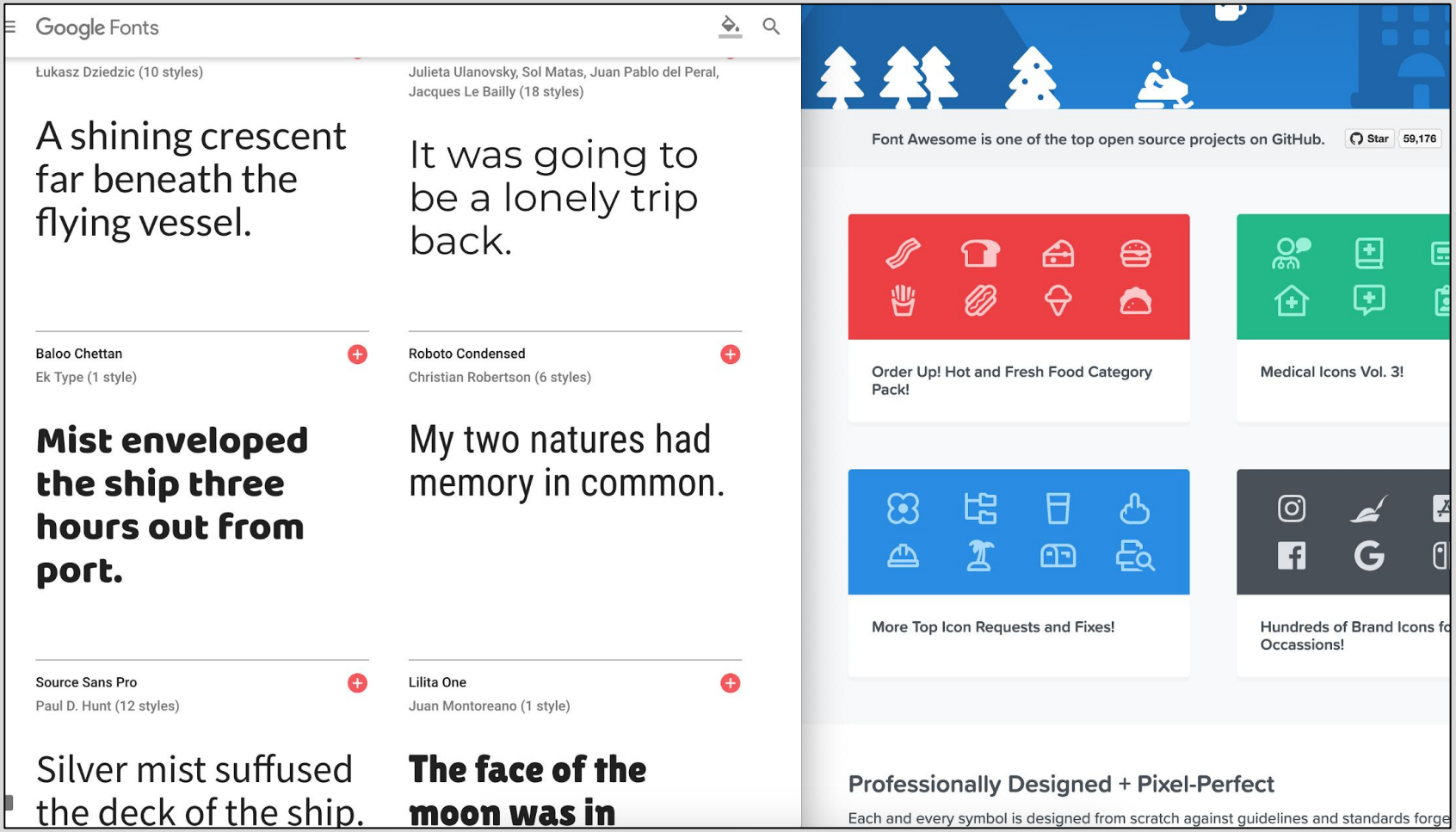
Skeuomorphic

VS

Flat

DESIGN




Google Fonts
Łukasz Dziedzic (10 styles)
A shining crescent far beneath the flying vessel.
Julieta Ulanovsky, Sol Matas, Juan Pablo del Peral, Jacques Le Bailly (18 styles)
It was going to be a lonely trip back.
Baloo Chettan
Ek Type (1 style)
Mist enveloped the ship three hours out from port.
Roboto Condensed
Christian Robertson (6 styles)
My two natures had memory in common.
Source Sans Pro
Paul D. Hunt (12 styles)
Silver mist suffused the deck of the ship.
Lilita One
Juan Montoreano (1 style)
The face of the moon was in
Font Awesome is one of the top open source projects on GitHub.
Star
59,176
Order Up! Hot and Fresh Food Category Pack!
Medical Icons Vol. 3!
More Top Icon Requests and Fixes!
Hundreds of Brand Icons fo
Occassions!
Professionally Designed + Pixel-Perfect
Each and every symbol is designed from scratch against guidelines and standards forge

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

ent Interface Layer

ns

?

here 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, enco
lop innovative solutions for real problems.

icipate?

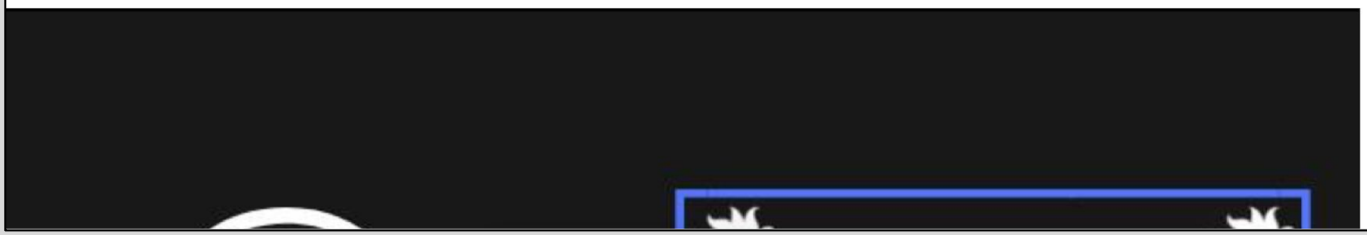
VAG (Stuff We All Get) and an excuse to travel! If this is not enough of a reason, hackathons are amazing experiences to apply what you've learned, pick up new skills and NETWORK! These competitions are free and we offer tr
so there is no real reason not to participate.

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, prof
ents 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

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>, <p>, <a>, <br>, <hr>
  -
- Recommendation: w3schools

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: w3schools

“

Don’t reinvent the wheel,
just realign it.

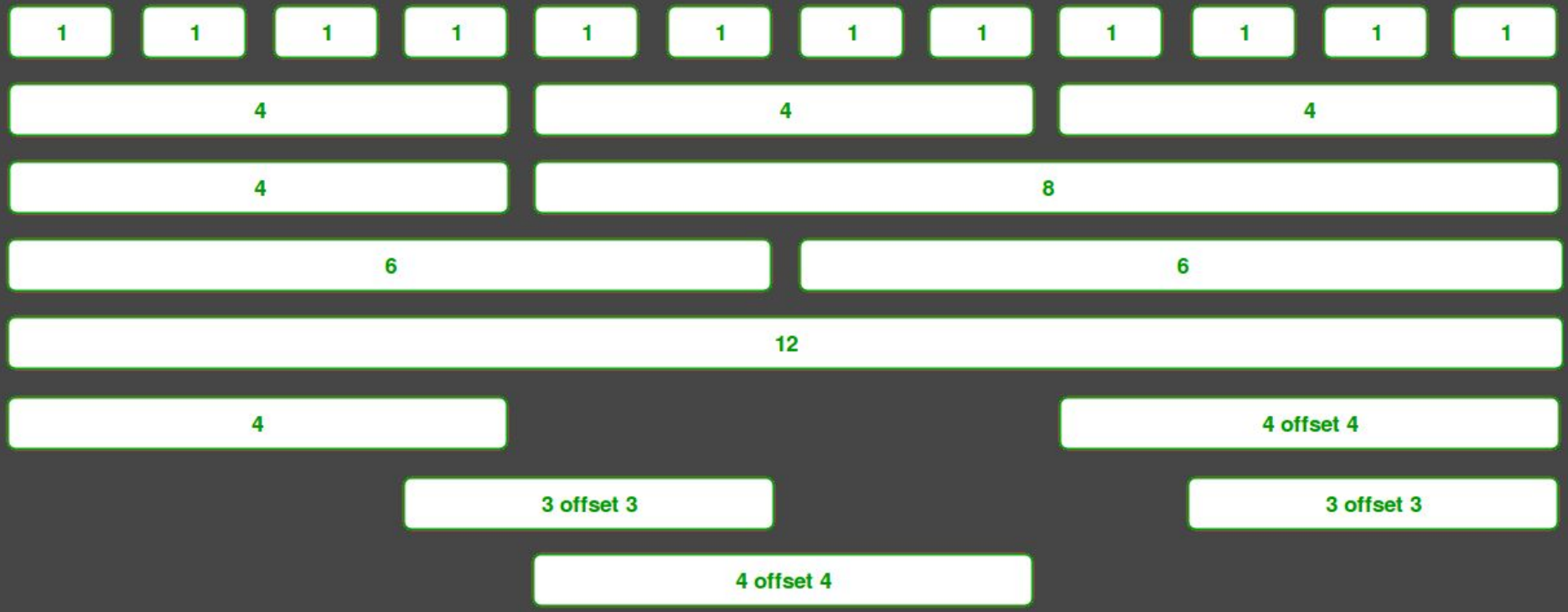
- Anthony J. D'Angelo

// Frameworks

- Bootstrap
- Pure.css
- UIKit
- Foundation
- Materialize

Bootstrap

//Grid System


1
1
1
1
1
1
1
1
1
1
1
1
4
4
4
4
8
6
6
12
4
4 offset 4
3 offset 3
3 offset 3
4 offset 4

// Bootstrap

To get started:
https://getbootstrap.com/

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