Training Overview

12 weeks

- a weeks Content

- 5 week foundations

-3 weeks capstone

Normal Day

- Content Pelivery

- One on Ones

- Self Study / hands on practice

3 Projects

-pl individual

-p2 small groups

-p3 capstone

Eval vations

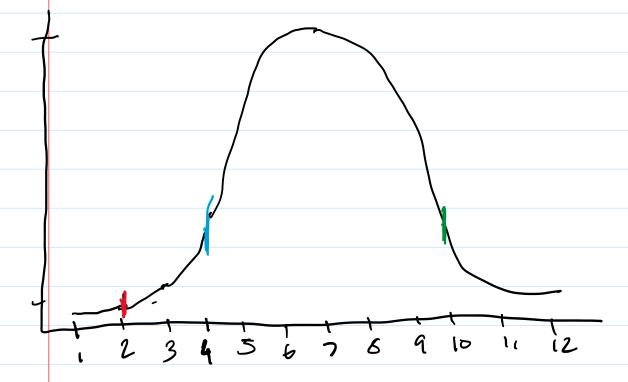
- Projects

- QL/foundation Quizes

- Coding Challenges

Extremely Difficult

- Will require 100% effort - fast paced



Attendance

- Be on time
- This your job

Project Presentations

- Present what you have no matter what

We will be looking for effort and improvement

Compoter foondations
Central Processing Unit CPU
- Brain of the computer
- Processes a request sent from elsewhere
Motherboard
- Nervous System
- 100's to 1000's of wires connecting
every thing
- Sends ID to the con
- Sends ID to the cpu - Allows upn to access memory
Y Y
Memory
- Registers / Cacle
- Very smalls > mb
- Store byte addresses to memory elsewhere
•
- Random Access Memory
- Info being used directly by the
CPU
- I allows for quick read I write
- I allows for quick read I write - Lost when computer is powerd off
- Relatively small gbs
- Dynamic RAM
· / \

- Dynamic KAM
 - Lontinually refreshed in order to maintain data
 - typically used for system memory
- Static Rom
 - Every thing is retained until powered
 - Used for smaller caches
- -Storage
 - Hard Drives 1550
 - cheapest form of memory
 - Data is persisted through power cycles

Operating Systems

Software that makes it easier to use our computer

- Correction between the user and hardware
- In charge of executing programs

- OS also acts like a manager what processes the CPU is running
- tinding files
- memory management
- Scurity

- Sccrity Different Os's - Windows - XP - Vista - (0 - Macos - High Seirra - Majare - Catalina - Bic Suc - Unix - MacOS - Linux - Ubontu - Redhat - fedora - Arch

VivV

Xiv() - Open Soorce family of operating systems - created in the early 1970's - Started as a terminal based OS - file tree toor usect usec home home music code Originally used a stell called sh - boorne again shell (bash) Linux: - Created by Liass Torumles - one of the larges open source projects - pionerned open source Basic Unix Comands - first thing to understand is the main directories - " Massa & Ja 1

main directories - "root" mapped to 1 - "hom" mapped to ~ - user specific information on this computer I server

Command Argonnets and flags - Argonnets are extra information for the command

- commondrare organist

- flag are boilt in arguments that give extra tuntionality
 - these are a dash (-) followed by a letter
 - commo ars -f

Most important Command

- man Cmonual)
 - gives you details about a certain command