

## ***Topic 1: Introduction***

- ❖ An overview of where this course fits in the life of a Computer Science major.
- ❖ An overview of JavaScript: evolution strengths, weaknesses and why the use in this course.
- ❖ Get started with basic development tools for the course
  - VS Code IDE
  - Remix
  - Docker
  - Git

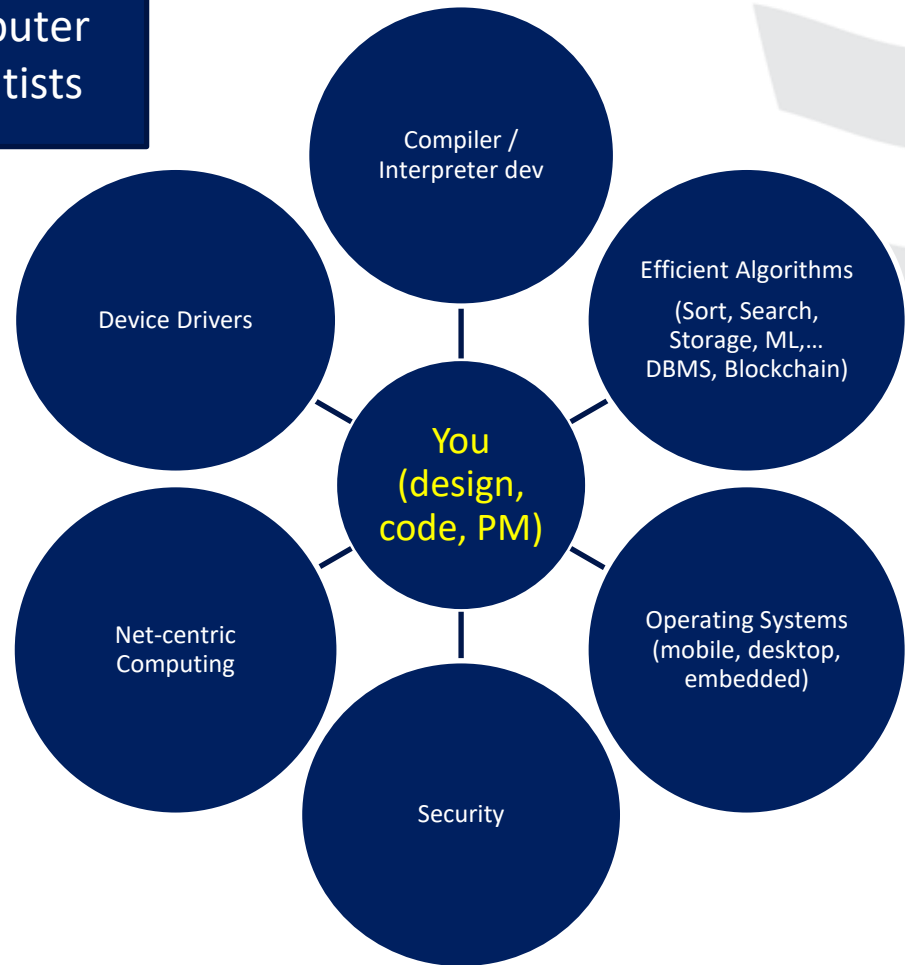
## ***...Topic 1: Introduction***

- An overview of where this course fits in the life of a Computer Science major.

# *...Topic 1: Introduction*

**CS Problem  
Domain 1:  
Mainly  
computational  
systems facing**

Domain 1 is  
primarily for  
Computer  
Scientists

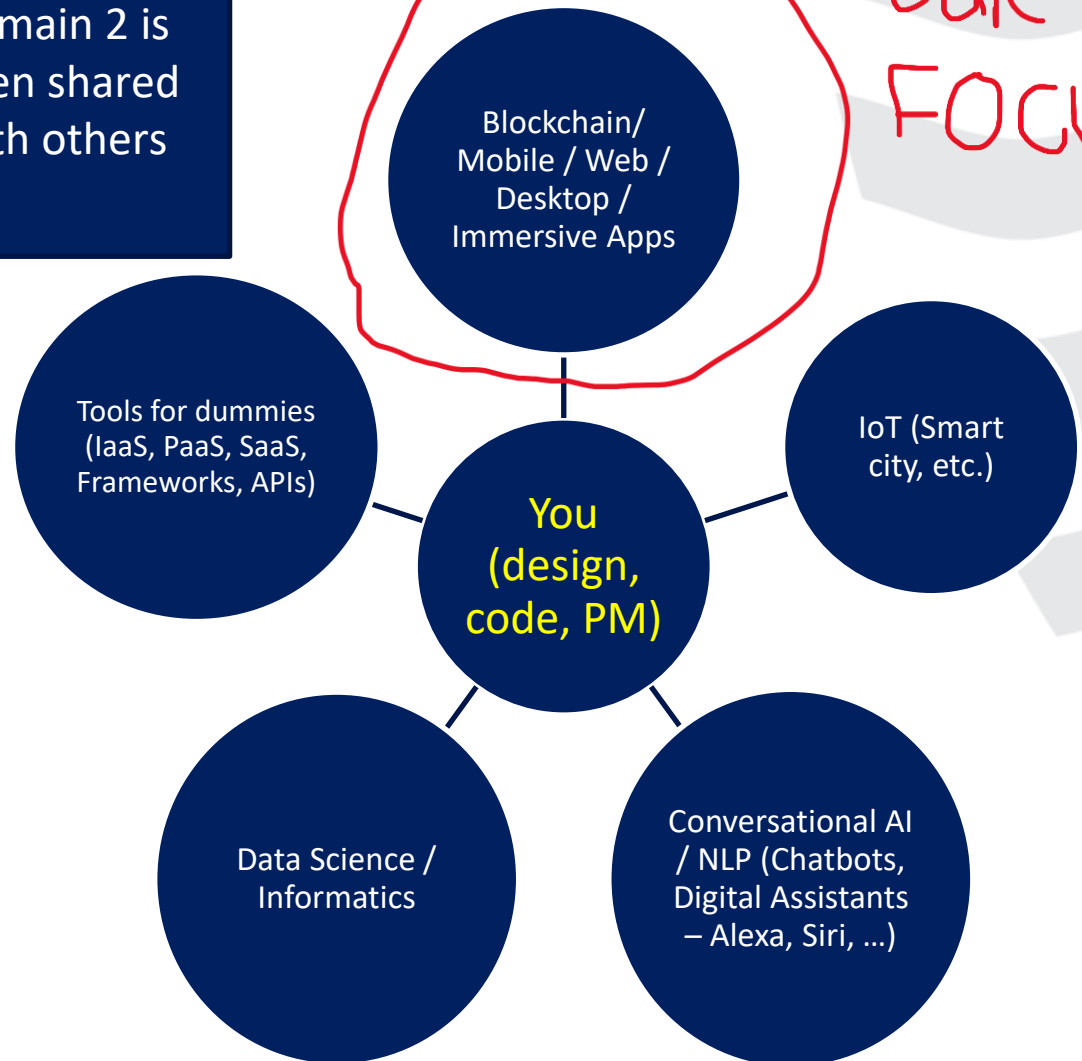


C/C++, and related (e.g. Rust), Assembly, Java

## *...Topic 1: Introduction*

## **CS Problem Domain 2: Mainly user facing and applied fields**

Domain 2 is  
often shared  
with others



JavaScript + any of Python, Java, C#, Go, Rust  
and related.

## *...Topic 1:*

# *Getting started with basic development tools for the course*

*VS Code IDE  
Remix  
Docker  
Git*

- ♥ VS Code IDE download
  - <https://code.visualstudio.com/download>
- ♥ Docker download
  - <https://www.docker.com/products/docker-desktop/>
- ♥ Git for Windows download
  - <https://git-scm.com/download/win>
- ♥ NodeJS
  - <https://nodejs.org/en/download/>
- ♥ Expo Snack (online React Native test environment)
  - <https://snack.expo.dev/>
- ♥ Remix IDE (an online IDE)
  - <https://remix.ethereum.org/>
- ♥ Hardhat
  - <https://hardhat.org/>

## *...Topic 1:*

*Getting started  
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tools for the  
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- ♥ Experience docker with docker-compose
  - Create a lesson project:
    - 1. Create a directory named *CSC202-2023set*
    - 2. Open folder in VS Code
    - 3. Add two files named
      - *docker-compose.yml*
      - *csc2022.env*

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- 4. Add the following content to *docker-compose.yml*:

*version: '3'*

*services:*

*database:*

*container\_name: postgres-csc2022*

*image: postgres:latest*

*ports:*

*- "5433:5432"*

*volumes:*

*- /Users/piusonobhayedo/data/postgres/csc2022:/data/postgres*

*env\_file:*

*- csc2022.env*



Reference for *docker-compose.yml* syntax:

<https://docs.docker.com/compose/compose-file/>

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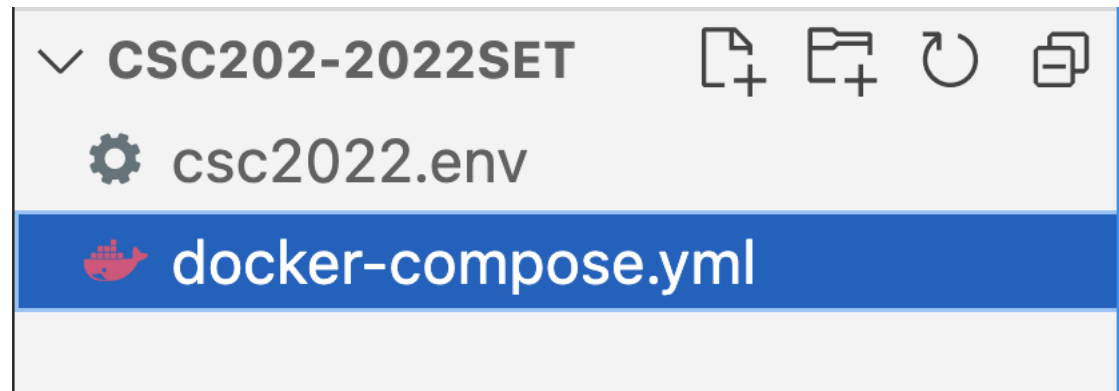
- 5. Add the following content to *csc2022.env*:

*POSTGRES\_DB=csc2022*

*POSTGRES\_USER=postgres*

*POSTGRES\_PASSWORD=postgres*

 Project tree:





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❖ Test-run docker-compose on terminal, from the trial project directory *CSC202-2022set* by running the command:

*docker-compose up*

❖ You should see the startup feedback on terminal

```
bozfdle2-c2c5050 | S055-03-S3 JJ:28:22'203 NLC [J] ROC: qatp9p2e 2lyfem ts leaqly fo gceebf connectiouz
bozfdle2-c2c5050 | S055-03-S3 JJ:28:22'244 NLC [S1] ROC: leqo ts uof lednileq
dor 0
bozfdle2-c2c5050 | S055-03-S3 JJ:28:22'244 NLC [S1] ROC: tula9f1q lecolq fenufr of 0\J2C3050: mauteq 54'
om9f1c lecolalely tu blo0le22
bozfdle2-c2c5050 | S055-03-S3 JJ:28:22'245 NLC [S1] ROC: qatp9p2e 2lyfem m2e uof bloberly 2unt qomu! 9uf
9f S055-03-S3 JJ:28:22'248 NLC
bozfdle2-c2c5050 | S055-03-S3 JJ:28:22'305 NLC [S1] ROC: qatp9p2e 2lyfem m2e tufelrnbfeq! f2zf kuomu nb
'be20f'2435,,
bozfdle2-c2c5050 | S055-03-S3 JJ:28:22'504 NLC [J] ROC: f2zfenu2d ou nu1x 2ockef "\V91\luu\bozfdle2d\2
bozfdle2-c2c5050 | S055-03-S3 JJ:28:22'588 NLC [J] ROC: f2zfenu2d ou 1b4e 9qqle22 ",:",' bolr 2435
bozfdle2-c2c5050 | S055-03-S3 JJ:28:22'588 NLC [J] ROC: f2zfenu2d ou 1b4f 9qqle22 ",0'0'0'0", bolr 2435
J) ou x9e_04-bc-funx-dun' coub1f9eq p1 0cc (p9f9u 8'3'0-e) 8'3'0' e4-p1f
bozfdle2-c2c5050 | S055-03-S3 JJ:28:22'588 NLC [J] ROC: 2f91f2ud bozfdle20f J3'3 (p9f9u J3'3-J'bdq0J00+
bozfdle2-c2c5050 | bozfdle20f p9f9p2e q1lecfouly 9bbe92e fo couf9u 9 qatp9p2e! 2k1bb1ud tuf1f9f12f9fou
bozfdle2-c2c5050 |
v1f9c1ud fo bozfdle2-c2c5050
2f91f2ud bozfdle2-c2c5050 ... qoue
(p2e) b1n2ou0p9leq0@b1n22-W9CBO0K-B10-5 C2C505-S0502ef # qockef-cowbo2e nb
```

❖ More explanations in class!

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- ✦ Before we use our lesson project directory for JavaScript, Git initialize it by running on terminal, from the directory:

*git init*

- ✦ To add a remote directory on GitHub:
  - 1. Login to your GitHub account online
  - 2. Create a new repository named
  - 3. Copy the URL of the remote directory for local association
  - 4. Associate with the following command, on local terminal [PLEASE use your own repository address and not mine below]:

*git remote add origin*

*<https://github.com/piosystems/csc202-2022set.git>*