

PROGRAMMING CLUB 2019-2020

Content Area: Website Building

We teach you how to build a website

- 1. Hosting with webpack and/or express
- 2. CSS and related styles (such as SASS)
- 3. Frameworks such as react
- 4. The good-to-haves (lighthouse optimization)
- 5. General optimizations (compression, lazy-loading)
- 6. Website design
- 7. Buy or get a free domain, and hosting

Content Area: Servers

We teach how to manage the back end with node.js

Content Area: Artificial Intelligence

We teach you about artificial intelligence, deep learning, and machine learning

Types of AI: RNN, CNN, ANN, LSTM

Al libraries: Tensorflow

Models: PoseNet, MobileNet, CoCo SSD, etc.

Content Area: Languages

a. Javascript

AP COMPUTER SCIENCE PRINCIPLES

b. Java

PRINCIPLES OF JAVA GT

AP COMPUTER SCIENCE A

- c. Rust
- d. Kotlin
- e. Python
- f. Typescript

Planned Events (more to come)

MAJOR LEAGUE HACKING

1. Congressional App Challenge

- a. Build any app with any language
- b. Deadline is Nov. 1st
- c. Varsity and JV teams

2. MLH Local Hack Day

- a. One day long at University of Maryland College Park
- b. Sometime in December
- c. Provide own transporation/carpool
- d. Varsity and JV teams

3. Conrad Challenge

- a. Will update later
- b. Varsity

Meeting Schedule

1) Normal meetings

- a) You must attend at least 50% of meetings if you are in Junior Varsity
- b) You must try to attend at least 75% of meetings if you are in Varsity
- c) Every Tuesday from until 3:15 for normal club activity

2) Impromptu meeting (not-mandatory)

- a) Announced with little notice; for matters demanding immediate attention
- b) Very infrequent and are completely optional
- c) Pertaining to matters such as competition breifings

Teams

Note: Havish, Daniel, Jeffrey, and Max will not be on either team.

Α

- 1. Up to 4 people maximum
- 2. Elite group participates in higher level competitions
- 3. Placement exams administered near the start
- 4. Skill analysis of multiple factors will determine eligibility
- 5. Stricter regulations of rules

В

- 1. Around 6 people
- 2. Participates in smaller competitions
- 3. Entry level in which less experienced members are placed into
- 4. Chill/have fun

Slack Communication

rwer

Group Me

https://tinyurl.com/mrhsprogramminggroupme