

IASA - Friday the 13th

Don't forget to sign in! 😊
(We sell your signatures for pizza)

Welcome to (and back to) IASA!

- Elections!
 - And voting on new Account Fun
- Goal for this year
- What Fall and Winter semesters will look like
 - Where stuff will be kept
 - How to access all the stuff I keep
 - New Stuff
 - Old Stuff

Elections!

- Required by University to be an “**Active Student Organization**”
- The way it works is we nominate someone for one of the 5 positions
 - If unopposed, that person is appointed
 - If opposed, we vote on it

Note: Officers are expected to be at every meeting (or a large majority) and participate heavily in club - This means putting effort into helping accomplish tasks and making the club a better place for everyone 😊

New Club Fund Account

- X-FUND is going away
 - This means we no longer have to wait for EMU to do paperwork for all payments that involve club money.
 - The EMU Credit Union says the club has to vote on moving the account over and then some more paperwork on the back end.
- TLDR; A majority of the club has to approve this change for the use of club money for Stuff.
 - Pizza, travel, GCloud payments, Paying back professors who personally budgeted trips, Etc.

My Goal for this Year

- Implement a system that is easy to follow for new people in club
- Make transfer of presidency easy for next peoples
- Get more people involved outside of Friday

Slack Channel for the IASA 🖐️

- Emusec.slack.com
 - Sign in with @emich.edu email
- Slack channel for club related stuff so we don't flood general with Club stuff.
- In Slack:
 - Click Channels
 - Search "iasa"
 - Join the "IASA-Club" channel
- This will be the new home of club updates that don't need a mass email 🔥

GitHub Fun

- A lot of interest has been expressed about participating in club on days other than Friday night
 - Hype
- To accomplish this, I've made a GitHub organization in which we can post all meeting notes, work on code, and manage from a centralized place.
 - Current president / officers will manage this from an Administrative perspective
- To get access to the page, give me your GitHub account name and I'll send invites!
 - Via Slack @Dr. Clutch McSwagDaddy

New Stuff!

- Online Competitions
 - Low cost online competitions where we come to EMU (or not) and participate as a team to practice for the larger competitions.
- A few were mentioned to me but I can't remember the names, so I'll have to ask Mohammad again.
- Neat events

INTO THE DATAVERSE HACKATHON:

The Challenge:

Develop an AI-enabling user interface that can intuitively capture both structured and non-structured maintenance data, and associated maintainer actions, in an efficient and user-friendly manner to produce more accurate maintenance logs.

Up to three teams can each win up to a \$15,000 contract award to further develop their concept in collaboration with NSIN!

IBM Call for Code Challenge

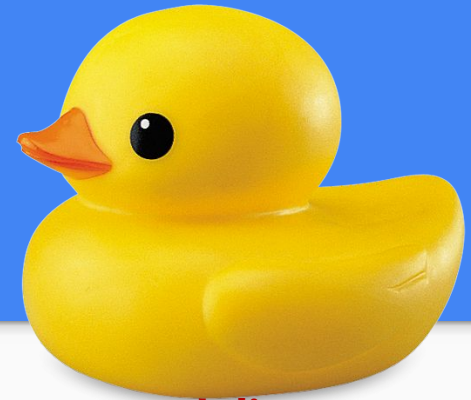
- IBM is sponsoring us to host a Hackathon at EMU.
- Club isn't doing much but booking rooms
- IBM is paying for it (H Y P E)
- IBM is running it (H Y P E)
- We can participate or just observe

IBM Call for Code Challenge (cont.)

<https://developer.ibm.com/callforcode/>

- Develop a solution to help those impacted by natural disasters
 - Focus on Wildfires this year
- Teams of 4 - 6
 - Bring a team or get a PUG
- Cash prizes at the competition
- 1st place moves on to the National Call for Code
 - With a chance to be sponsors to go deploy your tool to actually go help people

Last Year's Winners



WiFi network made of rubber ducks could save lives during natural disasters

- Project OWL:
 - Owl, which stands for organization, whereabouts, and logistics, was designed to be deployed in the event of a loss of communications during a natural disaster. It uses dozens of devices based on rubber ducks – yes, the kind that you play with in the bath tub – to create a **'ClusterDuck'** mesh network that people can connect to with their devices.

What Project OWL got

- This wholesome “ClusterDuck” meme, upon winning the Call for Code challenge, was awarded \$200,000, received support from The Linux Foundation, earned an opportunity to pitch a venture capitalist firm, all in addition to deployment support from IBM. They decided Puerto Rico would be an ideal location to test their tech given the impact of Hurricane Maria and the island’s challenging topography.

Questions about this

- Where to host it?
- Foodstuffs
- Questions you have for me about this competition?

Old Stuff!

- Going to ISTS and CCDC
 - ISTS is in New York at the Rochester Institute of Technology, and CCDC will (probably) be held at Davenport University
 - Specific details (dates, travel arrangements, etc) as they get closer
- YoloCon
 - Student Led Cyber Security conference put on by us.
 - This is our main fundraiser
 - Great way to get companies to notice you and get your name out there
 - Free t-shirts and donuts.
 - Jobs!

Old Stuff! (Cont.)

- Practice environment
 - All of our infrastructure will be built as Code.
 - This means it is easily reproducible, transportable, and can simply be ported to other hosting services
 - Such as AWS, ESXI, Virtualbox, Etc.
 - We do have new hardware, and we will be testing hosting things there.
 - May still be easier to run everything on GCloud because now club can pay for it.
 - Hype
- We will be doing a **terraform** / infrastructure as code night
 - May sound intimidating
 - It really isn't, don't worry.

Terraform 101

```
// Configure the Google Cloud provider
```

```
provider "google" {  
  
  credentials = "${file("CREDENTIALS_FILE.json")}"  
  
  project      = "project-name-here"  
  
  region       = "us-west1"  
  
}
```

Terraform 101

```
// A single Google Cloud Engine instance

resource "google_compute_instance" "default" {

  name          = "name-of-box"

  machine_type  = "type-of-gcloud-compute-instance"

  zone          = "us-west1-a"

}
```