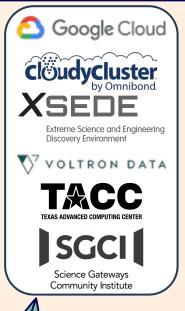


HackHPC@ADMI22 | Training Session







Join the HackHPC@ADMI22 Discord using this QR Code!

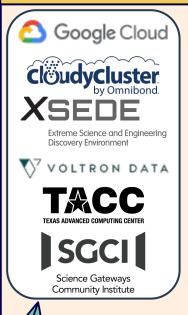
Mentor Overview







HackHPC@ADMI22 | Training Session









Mentor Overview

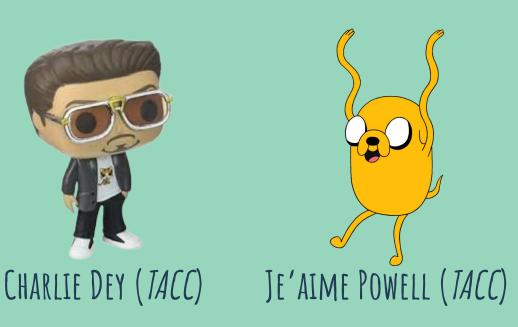






Introductions - Icebreaker







Agenda













- Expectations/Principles/ Challenges
- Kick-Off "The Draft"













The Objective of HackHPC@ADMI

The hackathon aims to harness the resources, skills, and knowledge found in the HPC community in an effort to provide applied exposure towards students from 2-4 year post-secondary educational institutions. In short, the hackathon will provide HPC skills and training while targeting problems that directly affect the participants.

Develop knowledge about solutions to identified issues affecting St. Louis through application of data analysis/presentation or management.

Student Outcomes

- Increased familiarity with data science in the cloud
- Experience collaborative software engineering
- Develop professional communication skills

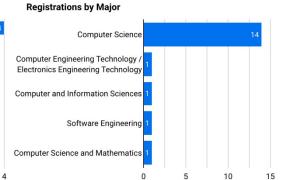




Total Registrations School 9

 $\begin{array}{cc} \text{Student Participants} & \text{Mentors / Staff} \\ 18 & 7 \end{array}$

Registrations by School Mississippi Valley State University Spelman College Winston Salem State University Alabama A&M University Morehouse College Merritt College Norfolk State University Jackson State University 0 1 2 3 4

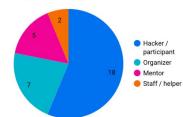


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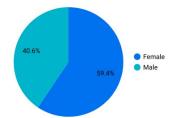
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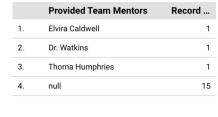
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Registrations by Role





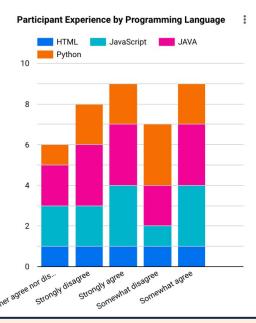






1-4/4 <







Sample Project Timeline

000

- Select a project
 - identify Milestones (Major/Minor)
 - identify possible logistical issues
- Deliver a project proposal presentation
- Regular check-ins
- Final presentation with deliverables:
 - Repo with code and data
 - Demonstration
 - Presentation

- Metrics for selecting a "winner"
 - Project Impact
 - Viability / Usefulness
 - The creativity of execution /Wow-effect
 - UX / Polish
 - Technical complexity
 - Collaboration
 - Presentation
 - Completeness





Student Deliverables and Resources

OOO Deliverables:

- Source code Including Comments
- PDF of presentation
 - Team members with pictures
 - Use of HPC technology in the project
- Github Repository Link
 - README.md with project description

OOO Resources:

- Google Cloud (Provided Credits)
- Cloudy Cluster
- Most Commonly Used
 - Python
 - Jupyter Notebooks
 - Node.Js (JavaScript)
 - Repl.it (Collaborative Environment)
 - o HTML
 - Discord -

https://discord.gg/ARg3vwWafF



HackHPC@ADMI22 | Training Session

OOO Mentor Deliverables

- [During Kick-off Meeting] 1 Slide-1 Minute describing your idea for a project
 - a. Elevator pitch for your project
 - b. Student teams will use this to determine with which project they would like to work during "The Draft"
 - c. **[Pro Tip:]** Keep it short (=<2*min*) and show your personality when presenting
- 2. [During Event]1 minute or less Video introducing your team
 - a. Include all team members, team name, and team project
 - b. Used for initial Viewer's Choice award presentation
 - c. Presented during the morning "Check In Session" of the final day.
 - d. A prize will be awarded to the best video!





What Can You Expect as a Mentor?

Your mentoring will be iterative

Your students will experience challenges, and so will you as a mentor

You can't solve everything in 96 hours! (No really you CAN NOT!!!)





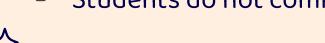
What Challenges Does a Mentor Solve?



- Imbalance in participation
- Project direction isn't viable
- Students are reluctant to drive the process



- Students just want the answers
- Morale decreases over time
- Students do not communicate

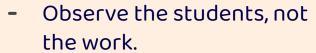








Fundamental Principles of Mentoring



- Be present, but not omnipresent.
- Use critical questions, not criticisms.







Your Task Today

Choose a Mentor Challenge, and describe a strategy you will use to address it



- What is the problem?
- What technique are you going to develop or use to tackle the problem? (one sentence)



- Tell a story of ideally, how you think this will play out
- Collaborate and report out, with a presentation visual







Example Technique

Problem: How do you get feedback from your students, when they might be reluctant to criticize the type of help you've given them?

Answer: Like, Wish, Wonder!

Describe: Students write a short one sentence reflection about their learning experience, where they describe something they liked, something they wished, something they wondered. They will take turns sharing. All students participate. In doing so, students are given an opportunity to prepare an answer rather than being "put on the spot", and any deltas come are reframed as "further questions" rather than frustrations









Mentor Mini-HACK (7 minutes)

Task:



From the "Common *Issues when Mentoring*" box pick one problem as a group and develop a technique to resolve it.



Deliverable:

One (1) slide and present the developed technique in one (1) minute.



Common Issues when Mentoring:

- ☐ Imbalance in participation
- ☐ Project direction isn't viable
- ☐ Students are reluctant to drive the process
- Students just want the answers
- Morale decreases over time
- Students do not communicate

Mentoring Techniques - Did you notice?

- 1. Getting to know your participants
- 2. Project purpose/goals
- **3.** Gamification
- 4. Scoping the project
- 5. Student guidance/counseling
- **6.** Student project roles and responsibilities
- **7.** Adjusting to student skill levels
- 8. Critical questioning







Like, Wish Wonder this Training!

Now to guide you through a post hack reflection using the "Like, Wish, Wonder" technique.

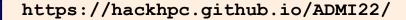
Each person gives:

1 - Like & 1 - Wish and/or Wonder

Audience if you agree, give the "snaps" or







Questions and Concerns

Next Training Sessions:



- GitHub/Discord [3/24/22]

Schedule:

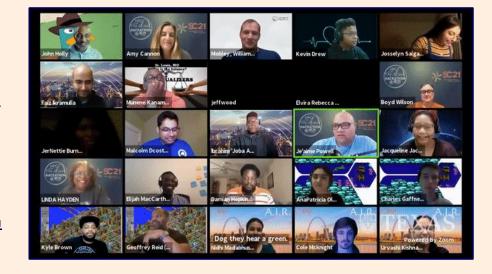
https://hackhpc.github.io/ADMI22/schedule.html



Presenters Contact Information:

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Je'aime Powell (TACC) - <u>ipowell@tacc.utexas.edu</u>





Storyset

Create your Story with our illustrated concepts. Choose the style you like the most, edit its colors, pick the background and layers you want to show and bring them to life with the animator panel! It will boost your presentation. Check out How it Works.







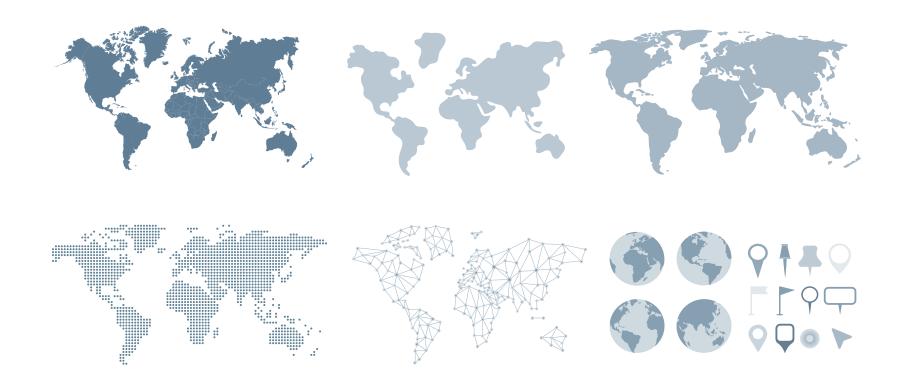


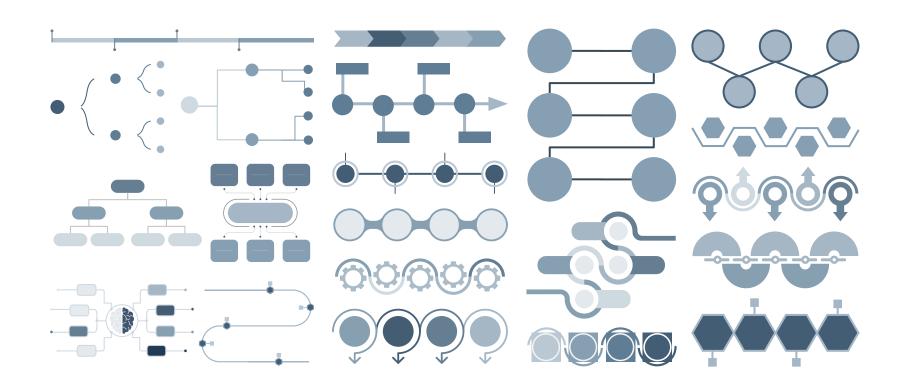


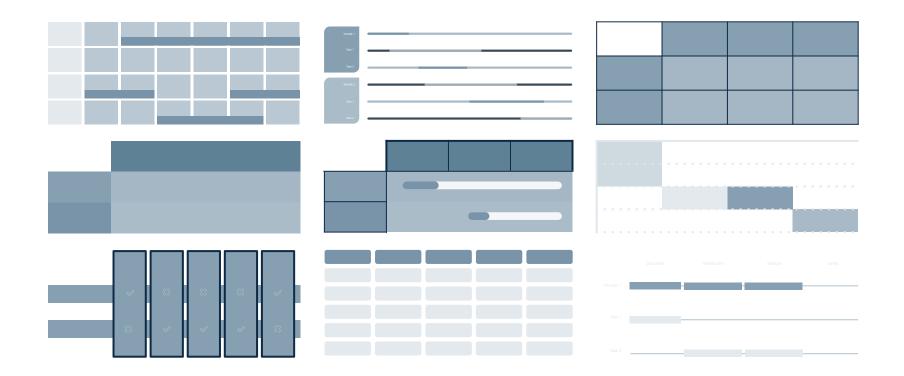
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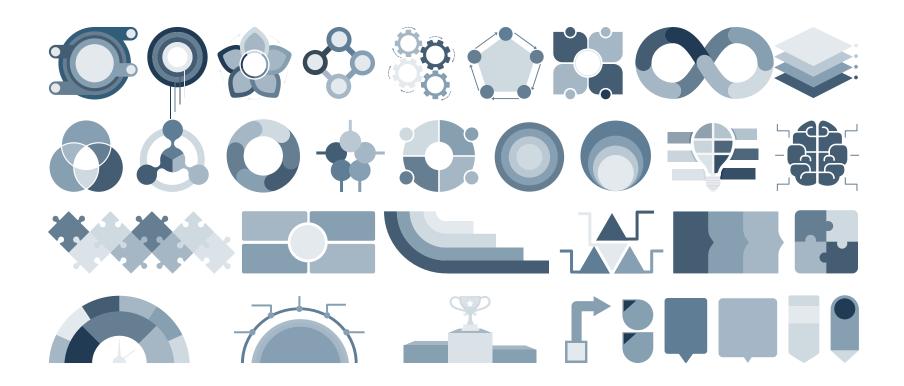
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In Google Slides, you can also use Flaticon's extension, allowing you to



Educational Icons



Medical Icons



Business cons



Teamwork Icons



Help & Support



Avatar Icons



Creative Process



Performing Arts



Nature Icons



SEO & Marketing Icons



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