



# HackHPC@ ADMII23 HACKATHON

JUNE 26TH - 29TH, 2023



**SGX3**  
Extend. Expand. Exemplify.

**SGCI**  
Science Gateways  
Community Institute

**TACC**  
Texas Advanced Computing Center



## Final Presentations

<https://hackhpc.github.io/admi23>



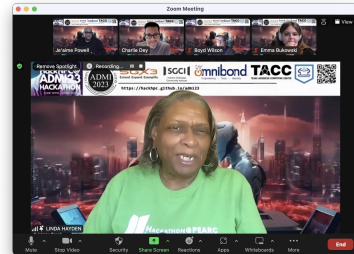
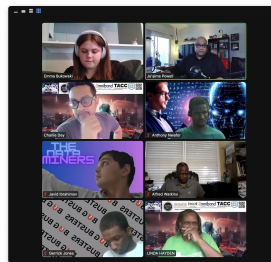
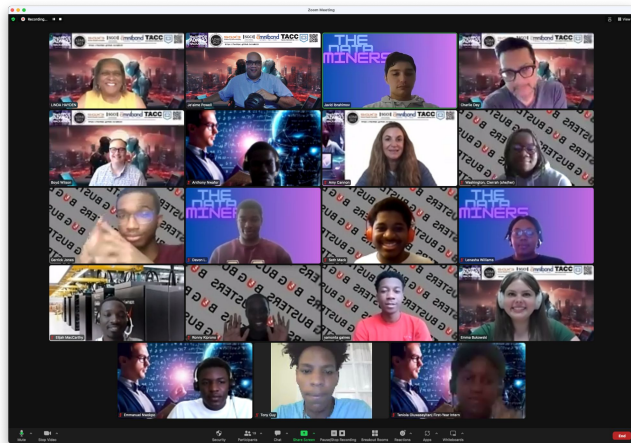
# HackHPC@ ADMI23 HACKATHON

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## Agenda

- Welcome
- Organizers and Guests
- Hackathon Objectives and Student Outcomes
- Example Project Timeline
- Deliverables and Resources
- Team Presentations
- 10min Break (*Judging Talley*)
- Awards Ceremony



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### Usability Dimensions

Learnability	How easy it is to accomplish basic tasks the first time
Efficiency	How quickly tasks can be performed once users have learned the system
Memorability	How easily users can re-establish proficiency
Errors	How many errors, their severity, and recoverability
Satisfaction	How pleasant it is to use the system

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## Organizers



**Linda Hayden** - ECSU/SGCI  
[haydenl@mindspring.com](mailto:haydenl@mindspring.com)



**Amy Cannon** - Omnibond  
[amycannon@omnibond.com](mailto:amycannon@omnibond.com)



**Alex Nolte** - University of Tartu  
[alexander.nolte@ut.ee](mailto:alexander.nolte@ut.ee)



**Boyd Wilson** - Omnibond  
[boyd@omnibond.com](mailto:boyd@omnibond.com)



**Je'aime Powell** - TACC  
[jpowell@tacc.utexas.edu](mailto:jpowell@tacc.utexas.edu)



**Charlie Dey** - TACC  
[charlie@tacc.utexas.edu](mailto:charlie@tacc.utexas.edu)



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# The Objective of HackHPC@ADMI23

This hackathon aims to harness the resources, skills, and knowledge found in the Science Gateways community in an effort to provide applied exposure towards students from 2-4 year post-secondary educational institutions. In short, the hackathon will provide skills and training while targeting problems that occur within the Science Gateways and Cyberinfrastructure community.

## Student Outcomes

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



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# Example Project Outline

## Event Simplified Schedule

- **Monday, 6/26/23**
  - **Kick-Off**
    - Mentor Pitches & Team Formation
    - Afternoon - Team Introductions
- **Tuesday, 6/27/23**
  - Morning Checkin - Team Goals
  - Afternoon Checkin - Team Resources
- **Wednesday, 6/28/23**
  - Morning Checkin - One-Day Progress
  - Afternoon Checkin - Status
- **Thursday, 6/29/23**
  - **Final Presentations**

~ 76 hrs Total Time  
- ~7 hrs Planning / Checkins  
- ~30 hrs Sleep/Rest  
~59 hrs Work Time



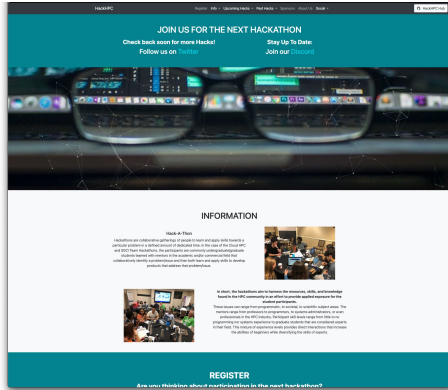
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## Portal Pitches



### ADMI23 HACKATHON

#### HackHPC/Open Horizons Alliance OHA

**Pitch idea**

Help recreate and fix any issues to HackHpc/OHA website.

- Using front end development

**Purpose**

- To support driven learners to step foot in our Gateway and gain similar opportunities!

**Programs to be Used:**

- HTML
- Python
- Java Script

Ja'ime Powell  
Email: [jpowell@tacc.utexas.edu](mailto:jpowell@tacc.utexas.edu)

Joselyn Salgado  
Email: [josehms5@gmail.com](mailto:josehms5@gmail.com)

Hector Santiago  
Email: [hector.m.santiago@gmail.com](mailto:hector.m.santiago@gmail.com)

HackHPC.org

### ASSOCIATION OF COMPUTER SCIENCE DEPARTMENTS AT MINORITY INSTITUTIONS

The Impetus on Computing at Minority Institutions

**ADMI 2023**

Virtual on Computing at Minority Institutions: One April 19-20, 2023. ADMI Computing at Minority Institutions

**ADMI 2023**

ADMI 2023 is a virtual event through the virtual gathering of computer science departments and faculty members from minority institutions. The event is designed to provide a platform for computer science departments at minority institutions to share their experiences, challenges, and successes. The event will include a keynote address, a panel discussion, and a networking session. The event is free of charge and open to all computer science faculty and students at minority institutions.

### ADMI Website Reimagined

Dr. Alfred R. Watkins  
VP of Information,  
Association of Computer  
Science Departments at  
Minority Institutions (ADMI)

ADMIUSA.org



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# Team Presentations



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# Bug Busters

## Busters (Members)

Cierrah Washington

Gerrick Jones

Justin Davis

Ronny Kiprono

Seth Mack

Yamonta Gaines



## Mentors

Boyd Wilson

Emma Bukowski

Josselyn Salgado



[Theme song: GhostBusters theme song \(instrumental\)](#)



# THE DATA MINERS

## KEY MINERS:



DEVON



LENASHA



JOVIO



KALIN



SHOUKAT

## LEAD MINERS:

JULLIE SALGADO

&

CHARLIE DEY





# CodeWarriors

## - Team Mentor(s)

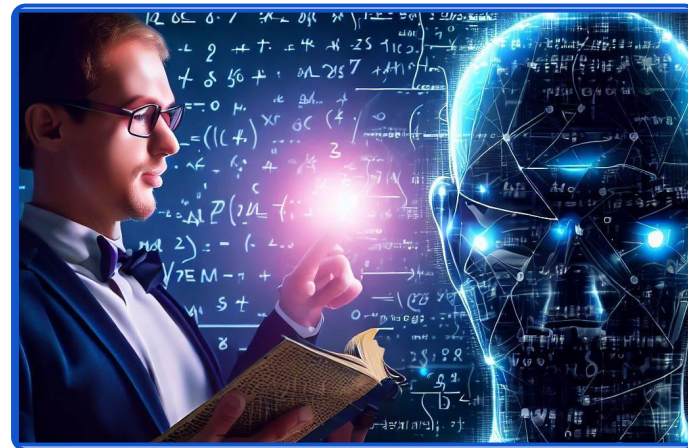
- Jasmine Trapier
- Alfred Watkins

## - Team Members

- Teniola Oluwaseyitan
- Emmanuel Nwokpo
- Anthony Nwafor

## - Team Theme Song Name

Unstoppable by Sia(<https://youtu.be/h3h035Eyz5A> )



## Team Background



<https://hackhpc.github.io/admi23>



# Deliverables and Resources

## Deliverables:

- Source code Including Comments
- PDF of presentation and poster
  - Team members with pictures
  - Use of technology in the project
  - Project impact to the Science Gateways community
- Github Repository Link
  - README.md with project description

## Resources:

- GitHub
  - Omnibond Eureka
  - Most Commonly Used
    - HTML/CSS/JavaScript
    - Python (Dash/Flask)
    - Jupyter Notebooks
    - GitHub Pages (Jekyll)
    - Repl.it (Collaborative Environment)
  - Slack
- SGCI/SGX3 Coding Institute 2023



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# Awards Ceremony



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# Judges Award 2nd Place



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# Judges Award 2nd Place

Team:  
The Data Miners



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# Judges Award 1st Place



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# Judges Award 1st Place

Team:  
Bug Busters



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# SGX3

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# UX / UI Award



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# SGX3

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# UX / UI Award

## Team: CodeWarriors



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# Thank You!!

