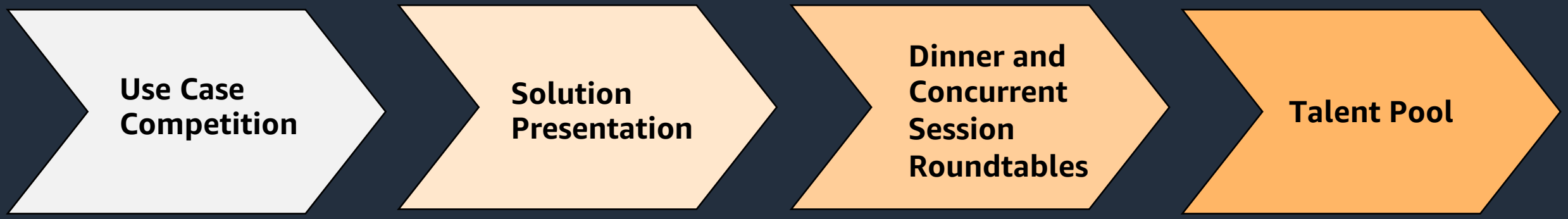
HBCU Trusted AI Case Competition

November 20, 2024

Co -Sponsored by the Department of Computer Science at Morgan State University

Business Case Competition: Overview



Team of 4 students develop a business case to help solve a customer's real world problem with an AWS cloud solution

Judged by a panel of AWS employees, participating customer, faculty and staff

Top 3 teams are selected

Program features:

Networking and awards dinner

Career roundtables with University ID&E program leads and AWS leaders

Follow up touchpoints with alumni and student candidates

Business Case Competition:

- Business Case – AWS has recognized the opportunity to create a unique educational experience by embedding AWS champions at the center of higher education institutions, working side by side with the faculty and students on real world business problems

- Impact
  - Successfully completed 7 Competitions since 2021
  - Closing the talent gap

- Results
  - Accelerated Path to careers at AWS
  - Deep Customer relationships

Trusted AI Challenge

A global university competition that offers cash prizes for students to develop secure and responsible coding capabilities in large language models.

This competition is a preliminary round for Morgan State University in Preparation for a larger Amazon Competition. Details **here.**

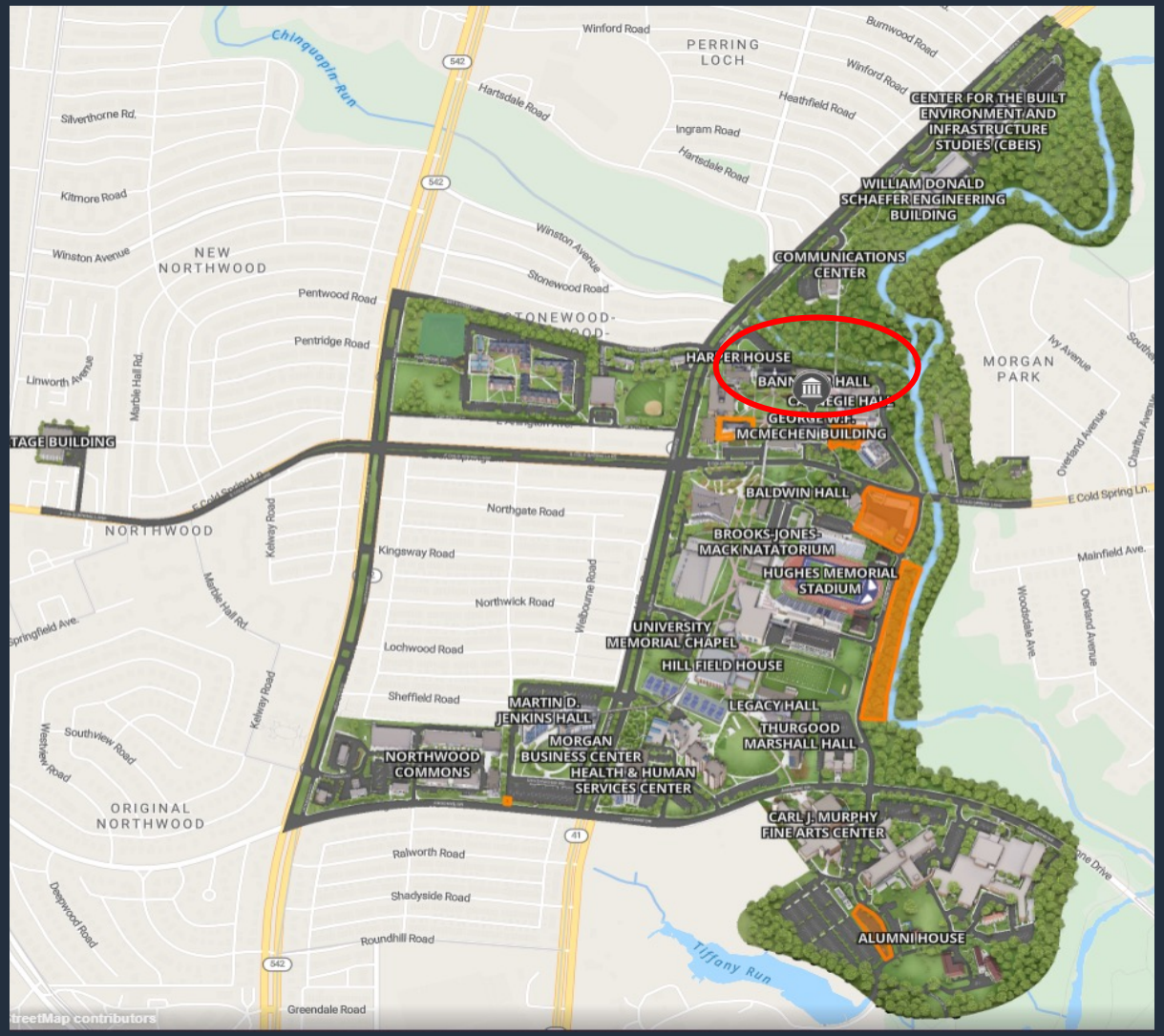
Ready to embrace the challenge? Click here or scan QR code to register and view more details. All who compete will also be considered for open roles at AWS.

Critical Dates

Registration Deadline: November 11

Competition Date: November 20 2024

Event Details



- **Date:** Wednesday, November 20th
- **Event Time:** 9:00AM-7:30PM
- **Location:** Morgan State Campus, George W.F McMechen Building
- **Address:** 1700 E Cold Spring Ln, Baltimore, MD 21251
- Room: ROTC Amphitheater
- **Dinner & Awards**: 5:00PM-6:30PM
- **Career Day Guest Speaker-** 6:30-7:30PM
- **POC:** Keith Gelinas: 630-730-415
- POC: Wale Omoniyi: 267-253-5236

The Challenge

The Amazon Trusted AI Challenge aims to enhance the safety, reliability, and trustworthiness of LLMs powering AI-assisted software development tools. With the rise of generative AI coding assistants, these technologies demonstrate unprecedented innovative capabilities and offer exciting opportunities to ensure responsible and reliable use.

This challenge looks to inspire developers, scientists and researchers to create solutions that enhance AI-assisted coding tools' ability to protect users and systems.

The Business Case – Continued…

Assignment Highlights:

Proposed Solution: Describe your security feature, including its functionality and how it integrates with the existing model. Develop an automated system to detect and prevent a code-generating language model from producing malicious code, such as code that could enable denial of service attacks, malware, or ransomware.

Implementation Plan: Outline the steps required to implement this feature, including any necessary modifications to the model architecture.

Testing Methodology: Explain how you would test the effectiveness of this security feature against potential threats.

Expected Outcomes: Discuss the anticipated impact on reducing malicious code generation.

Additional Assignment Requirements Located in Business Case Handout

The Business Case – Continued…

Rules

1. Each team presents using a PowerPoint presentation (be creative), a sample template will be provided by 11/11/24. **Presentation are due Tuesday, November, 19 2024, 5PM**: shuangbao.wang@morgan.edu
2. Presentations must be approved by your team advisor prior to submission.
3. No spectators allowed in the room during the competition unless approved by the judges.
4. Presentation rules:
    a. All team members must be present for initial presentation.
    b. Students can make assumptions about the challenge: however, their assumptions must be explicitly addressed in their presentation.
    c. Students are allowed access to non-human resources to answer the case (public records, third party data, etc.)
    d. Students cannot collaborate, borrow, or otherwise take material from another team.
    e. Dress for this competition is business casual.
5. Each team has 12 minutes to present their findings.
6. The team has 5 minutes for a question and answer session.
7. Judges will then give the team 2-3 minutes of feedback.

Team 1
Kaitlyn Pearson kapea8@morgan.edu
Tyreke Bowman tybow4@morgan.edu
Emmanuel Olaleye emola4@morgan.edu
Moriyah Davis modav18@morgan.edu

Coach
Emily Soward - sowarde@amazon.com

Team 2
Joshua Olukoya joolu5@morgan.edu
Ramisa Farha rafar2@morgan.edu
Perry Bennett perrybennett11@gmail.com
Samuel Bankole Saban16@morgan.edu

Thomas Loving -tlovin@amazon.com

Team 3
Tyler Austin tyaus2@morgan.edu
Chelsea Minard chelseamin121@gmail.com
Olabisi Adewumi olade130@morgan.edu
Fortune Uwaoma fouwa1@morgan.edu

Gavin Jones - gavinjo@amazon.com

Team 4
Jovy'on Brown jobro57@morgan.edu
Collin Umeh coume1@morgan.edu
Sudip Sharma susha8@morgan.edu
Trevon Thomas trtho27@morgan.edu

Brandon Middleton - branmid@amazon.com

Team 5
Etinosa Ogbeide etogb1@morgan.edu
Najae Potts napot2@morgan.edu
Jabria Foster jafos12@morgan.edu
Ajani Johnson ajjoh4@morgan.edu

Emily Soward - sowarde@amazon.com

Team 6
Praise Enweriku prenw1@morgan.edu
Cameron Williams cawil69@morgan.edu
Joshua Akeredolu joshtemi6@gmail.com
Capri Shorter casho8@morgan.edu

Thomas Loving -tlovin@amazon.com

Team 7
Kayla Smith kasmi81@morgan.edu
Justyn Lewis julew3@morgan.edu
Seth McKnight semck2@morgan.edu

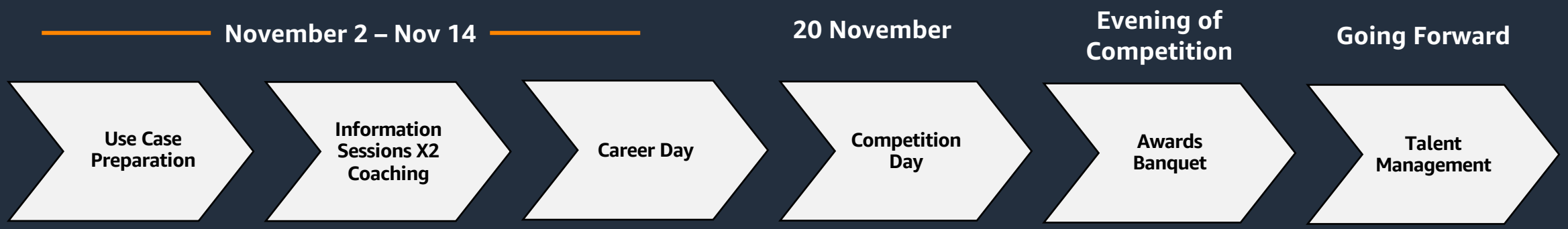
Gavin Jones - gavinjo@amazon.com

We will evaluate teams based on 5 key areas

Team Name_____ Judge's Name_____

Score	1 Unacceptable	2 Fair	3 Good	4 Very Good	5 Excellent
Description	• Demonstrates no understanding of the material • Work is incomplete, inaccurate and poorly organized	• Demonstrates a limited understanding of the material • May have significant errors	• Demonstrates a basic understanding of the material • Work is mostly complete and accurate but may be poorly organized	• Demonstrates a good understanding of the material • Work is complete, accurate and well organized	• Demonstrates a basic understanding of the material • Work is complete, accurate and well organized and shows creativity and originality
Case Study Depth of understanding Clarity of the problem statement					
Solution Presentation- Ability to articulate the model's features and response behaviors					
Technical Merit Evaluate the technical soundness and rigor of the proposed solutions. Assess the efficacy of the algorithms, models, or systems developed to address the challenge					
Presentation Style Responses to Questions Team Dynamics					

Business Competition Timeline



Teams of 4 students create a solution/idea to help solve a selected customer's real world problem with an AWS cloud solution

AWS Coaches aligned to teams

We will hold 2 Information Sessions and Coaches will set up Office Hours for assigned teams

½ Day of roundtables with AWS leaders who share Career & Life Lessons

Students present 12-minute solutions followed by questions

Judged by a panel of AWS employees and customer (Understanding, solution, presentation skills, teamwork, responses to questions, innovative thinking, professionalism)

Top 3 teams are selected for Recognition

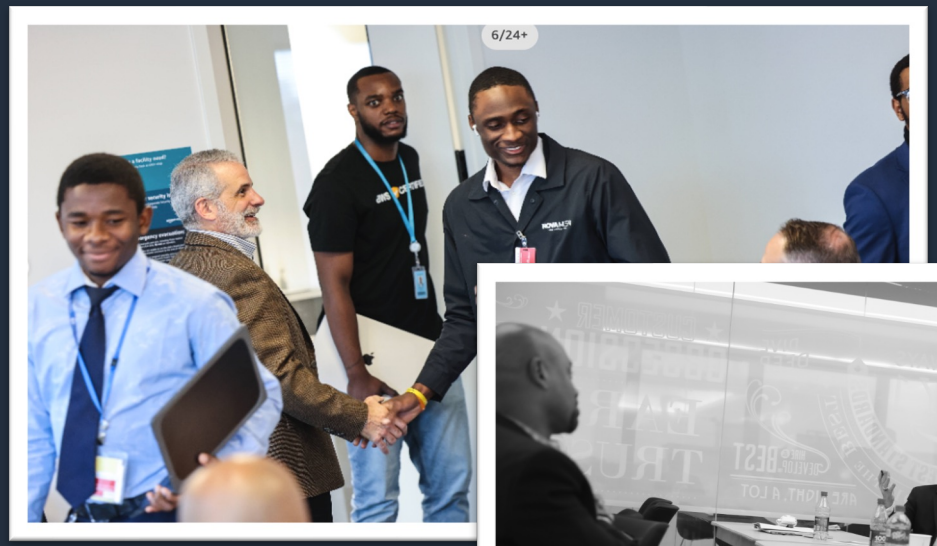
6pm Dinner and Awards Banquet with Guest Speaker

Follow up touchpoints with alumni and student candidates

Run of Show

Time	Activity
8:30AM	AWS Team Arrive and Set Up
9:00AM	Judges & Students Arrive
9:00 - 9:30AM	Introductions, Rules, Event Overview
9:30 -11:30AM	Career Day
11:30 -12:30PM	Lunch
12:30 - 4:00PM	Team Case Presentations & Concurrent Student Sessions
4:00 - 4:30PM	Judge Deliberations
5:00 - 6:30PM	Dinner & Presentation of Awards
6:30 - 7:30PM	Career Day Guest Speaker

AWS Career Day



Career Day

- 9:30-11:30 on Nov 20th
- Hear how to make a successful career in technology
- AWS Recruiting Materials

Banquet and Guest Speaker

Team Prizes

1st Place = $4000

2nd Place = $2000

3rd Place = $1000

Time/Location: 5 PM-7:30 PM, ROTC Amphitheater

Diya Wynn – Responsible AI Strategist

Career Highlights

- Diya Wynn leads Responsible AI for Amazon Web Services. She leads a team that engages with customers to go from principles to practice - operationalizing standards for responsible Artificial Intelligence/Machine Learning and data.
- Diya leads discussions globally on taking intentional action to uncover potential unintended impacts, and mitigate risks related to the development, deployment, and use of their AI/ML systems.
- She leverages her over 25 years of experience as a technologist scaling products for acquisition; driving inclusion, diversity & equity initiatives; leading operational transformation across industries; and understanding historical and systemic contexts to guide customers in establishing an AI/ML operating model.
- She serves on non-profit boards including the AWS Health Equity Initiative Review Committee; mentors at Tulane University, Spelman College, and GMI; was a mayoral appointee in Environment Affairs for 6 consecutive years and guest lectures regularly on responsible and inclusive technology.
- Diya studied Computer Science at Spelman College, the Management of Technology at New York University, and AI & Ethics at Harvard University Professional School and MIT Sloan School of Management.