HACKHPC
@ADMI26
JUNE 22-26, 2026

https://hackhpc.github.io/admi26

Check-In:

Day 2 Afternoon

June 23, 2026 - Afternoon Session

ADMI
THE ASSOCIATION OF COMPUTER SCIENCE DEPARTMENTS AT MINORITY INSTITUTIONS

NSF

SGX3
Extend. Expand. Exemplify.

TACC
TEXAS ADVANCED COMPUTING CENTER

projectEUREKA!

HackHPC
Hackathons and Codeathons

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Goals For the Next Check-in

Your team needs to add no more than two (2) slides to the shared deck with:

- Your current project status
  - Progress
    - One (1) Interesting thing you found/figured out
  - Priority tasks for next session
- Technology/Resources in Use
  - One (1) Interesting thing you found/figured out
- Tasks/Milestones you want to accomplish by the next afternoon session (24hrs)
- Any bottlenecks, blockers, issues, or concerns
- You will have 2-mins to present

Project Plan Guide

[Note: If your slide deck is made in Canva it must be exported to PPTX and then imported to the shared slide deck]

The Hacking Tribunal

Future Event Prediction

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theHackingTribunal:~$

Future Event Prediction

Madison Conley
Computer Science, *MVSU*

Nadia Rapheal
Computer Science, *WSSU*

Josiah Johnson
Computer Science, *WSSU*

Usir Jackson
Computer Science, *Claflin*

Project Status I:

Completed the first two milestones. Set up environments and repository, selected and parsed through 10 relevant Wikipedia articles for starting nodes, utilized token parser. Starting on milestones 3, 4, 6, and 7.

In the next 24 hours:

- Complete robotics Wiki seed and structured JSON dataset
- Create initial knowledge graph and node/relationship database
- Complete basic graph visualization
- Create historical timeline dataset and trend analysis
- Use collected robotics data to convert to usable knowledge graph
- Update GitHub repository and keep good comments

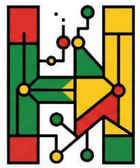
Project Status II:

Bottlenecks

- Outlining and introducing a new member
- Shifting the roles around and redefining roles
- Honing in on our decision for our subject and our project goal
- Reviewing the scope of the project

Interesting Thing to figure out

- Importing LLM models from HuggingFace , including REBEL, is efficient
- We can put AI requests directly into the code
- With project management, and a better scope, the project goes by much smoother



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Origin Zero

BeatKitchen - Cold Streets (87 BPM) Rap Instrume

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Origin Zero

Team Members Names

- Emmanuel Akwasi Opoku
- Prince Osei
- Anthony Nwafor
- Amelia Hunter

Origin Tracking

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PROJECT STATUS

PROGRESS

- Wikipedia crawler built and pulling live articles
- 60 articles crawled, 474 edges mapped
- Knowledge graph built with NetworkX
- PageRank running — root causes identified
- Origin chain saved to JSON for next stage

> *PageRank ranked African-American History as the #1 root cause of Type 2 diabetes — not diet, not genetics.*

NEXT 24 HOURS

- Set up Groq API and generate AI narrative
- Build D3.js frontend visualization
- Connect full pipeline end to end
- Deploy to GitHub Pages
- Practice 5-minute demo pitch

BLOCKERS

- Hugging Face bart-large-cnn not supported on Python 3.14
- GPT-2 too small — narrative loops and repeats
- Amelia unavailable — team covering crawler part

> *Solution: Switching to Groq free API (llama3-70b) for high quality narrative generation.*

TECHNOLOGY & RESOURCES

STACK IN USE

- Data pipeline

`Python` `wikipedia-api` `NetworkX` `NumPy`

- AI narrative

`Groq API` `llama3-70b`

- Frontend & hosting

`D3.js` `HTML/CSS` `GitHub Pages`

> *Switched from Hugging Face to Groq — Python 3.14 doesn't support bart-large-cnn. Groq's llama3-70b is faster and free.*

INTERESTING FIND

- Wikipedia API returns 1,200+ links from a single article
- Filtering by origin keywords was essential — without it, results were full of medical jargon
- PageRank placed African-American History above diet and nutrition as root cause
- 60 nodes and 474 edges built from one seed article

> *The data proved our thesis — history ranks higher than biology as the root cause of Type 2 diabetes.*

WInMaxxers

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WinMaxxors

- Team Members Names
  - Quintin Ampofo
  - Cole Scott
  - Damone Washington
  - Darell Barnes

- Future Event Prediction

https://drive.google.com/file/d/1RSo9XUcA_7guj58Akhidq8lYweRKV9hm/view?usp=sharing

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Progress Check-in

The big picture: What will be the emerging concept or technology in the field of NanoTechnology?

Current Project Status

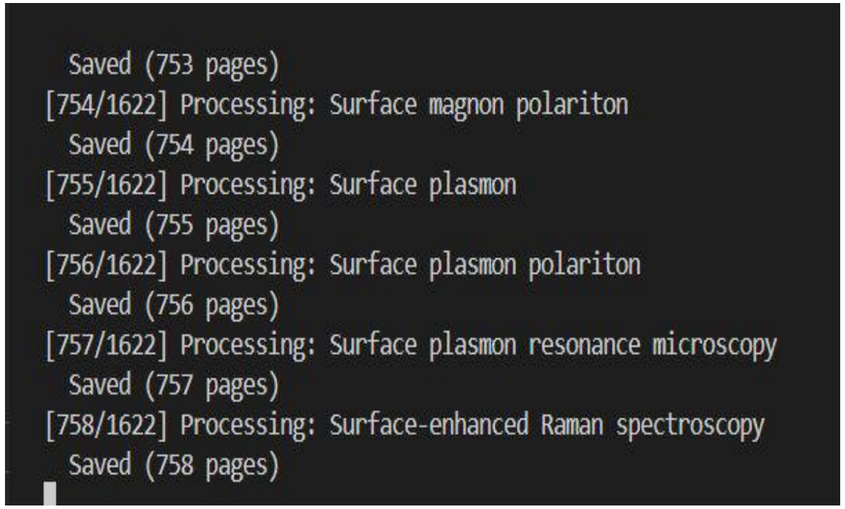
- Master list set completed using Category:Nanotechnology (depth-2 traversal)
- Final dataset size: ~1622 pages (nodes)
- Snapshot generator pipeline implemented and currently running (2020–2024 temporal extraction)

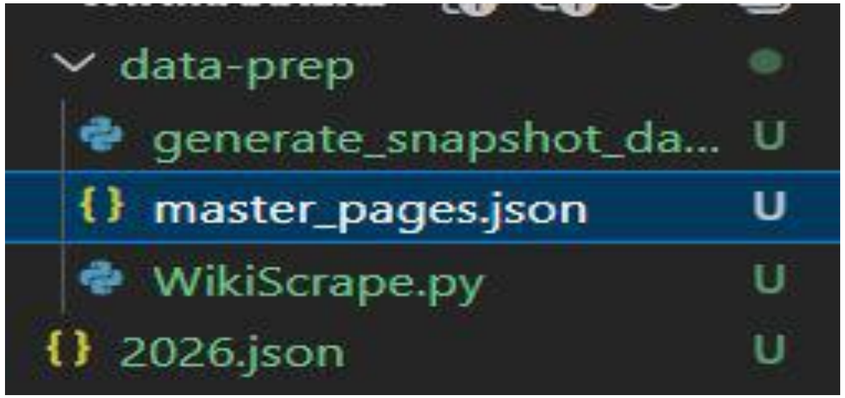
Progress So Far

- Wikipedia category crawler + master list generation completed
- Historical snapshot system built:
  - year-specific revision retrieval
  - wikitext link extraction
  - category extraction per page
- Persistence + retry logic added for stability under API rate limits

Interesting Finding

- Switched from **link-based depth expansion** to **subcategory-based expansion**
- This keeps the graph domain-consistent while still allowing structured growth
- Prevents noisy cross-domain expansion (e.g., physics, chemistry, general Wikipedia drift)





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Progress Check-in

Technology / Resources

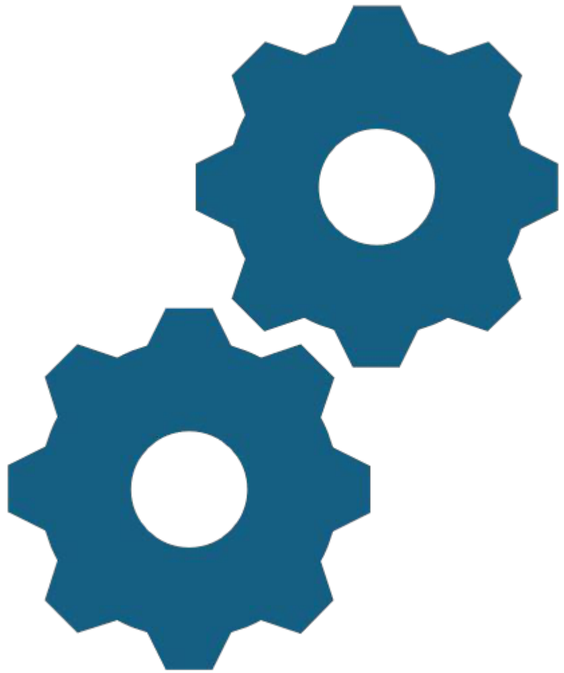
- Wikipedia MediaWiki API
- Python (requests, regex, JSON pipeline)
- Custom retry system + rate limiting + checkpoint saving

Next 24 Hours

- Complete snapshot generation for all years (2020–2024)
- Validate failed pages and rerun missing data
- Begin graph construction from snapshots
- Start feature engineering (PageRank, degree, communities)

Bottlenecks / Risks

- API rate limiting → long runtime (~20k+ requests total)
- Some revision lookups intermittently failing
- Full pipeline is compute/time heavy but stable due to checkpointing




CAPSULE
CORP.
CAPSULE CORP
CODER

Team Introduction:

Javonte Carter

FAMU

Junior Dev

Joshua Chaney

MVSU

Project Manager & Junior Dev

Sydney Riddick

ECSU

Creative & Graphic Designer

Chance Walker

WSSU

Project Manager

Progress Update Day Two:

- Progress Status:
  - Created GitHub Repository
  - Created Scenarios
  - Created Scenario Path Options
  - Created Path Mockups
    - We found out to set up pages you need to name it index.html
- Technology/Resources Used:
  - We used Google Gemini, Wikipedia, DBZ Show, and GitHub
    - We found out that you can share Gemini conversations
- 24 Hour & Next Session Milestone Task:
  - Milestone 5:
    - Front-end development, build the homepage, create choice buttons, and design event cards and timeline screens
- Issues/Concerns:
  - Claude is down
  - Not everyone having access to Pro/Plus subscriptions