



FACULTY HACK @GATEWAYS 23

Training Session:

Project Poster Template & GitHub In the Classroom

[HTTPS://HACKHPC.GITHUB.IO/FACULTYHACK-GATEWAYS](https://hackhpc.github.io/facultyhack-gateways)



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Agenda

- Welcome and Introductions
 - Organizers
 - Mentors
 - Faculty
- Schedule and Deliverables (L. Hayden)
- Poster Template Overview (M. Kanampiu)
- GitHub in the Classroom Overview (J. Powell)
- Group screenshot

Join the Discord!

<https://discord.gg/UMwvq25mWC>





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Project Poster Template

Presented by: Munene Kanampiu
Professor - Winston-Salem State University (WSSU)

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Team Rams

Members:

Team Mentor:

Elijah MacCarthy [[✉](#) [in](#)]
Oak Ridge National Laboratory

Faculty Members:

- Rebecca Caldwell
- **Munene Kanampiu**

Target Course(s):

- Java Programming

Goals:

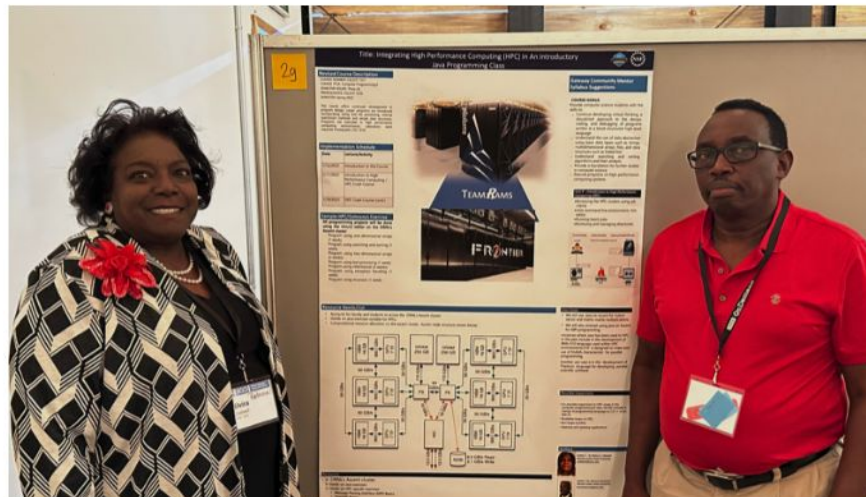
- **Checkin #2**
 - Identifying target course and applicable HPC resources from ORNL/wider HPC community
- **Checkin #3**
 - Modify course outline for CSC 1311
 - Write lab exercises.
 - Work on poster.

Links:

- Team Introduction Slide: [\[PDF\]](#)
- Zoom Background: [\[JPG\]](#)



🏆 Best Poster Award Gateways 2022





Poster Template Link

Event Site → Resources → Under the first “Session” → Poster Template

Event Site:

<https://hackhpc.github.io/facultyhack-gateways23>

Direct Download Link:

https://hackhpc.github.io/facultyhack-gateways23/assets/slides/pre-event_training/2023_FacultyHack-GatewaysPoster-withfeedback.pptx





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Revised Course Description

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Implementation Schedule

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Sample HPC/Gateways Exercise

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Resource Needs/List

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Gateway Community Mentor Syllabus Suggestions

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Resources / Science Gateways

- Resource
- Resource
- Resource
- Resource

Use Cases

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Datasets

- Dataset
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Possible Expansions

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Authors

Author Photo	Author 1 Name Affiliation Email
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Author 2 Photo	Author 2 Name Affiliation Email
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Author 2 Photo	HPC/Gateways Mentor Name Affiliation Email
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Your feedback is welcome!



MORE INFORMATION → <https://hackhpc.github.io/facultyhack-gateways23>



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GitHub In the Classroom Overview

Presented by: Je'aime H. Powell

Sr. Systems Administrator - Texas Advanced Computing Center (TACC)

[HTTPS://HACKHPC.GITHUB.IO/FACULTYHACK-GATEWAYS](https://hackhpc.github.io/facultyhack-gateways)

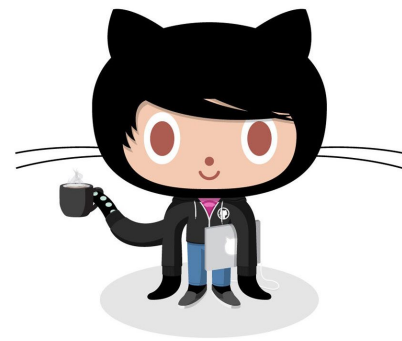


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About GitHub



History

- Started October 2007
- Mascot “Octocat”
- Acquired by Microsoft June 2018

Purpose/Uses

- Facilitate version control and issue tracking aspects of software development
- Documentation/ Project Management
- Discussions
- Development/Testing
- Static Web Pages (GitPages)

Access Methods

- Git (Command line)
- Web Page
- Desktop Clients (Github Desktop, VS Code, Atom, etc.)

Rendered/Processed Languages

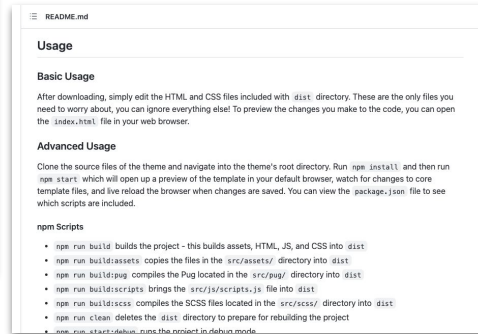
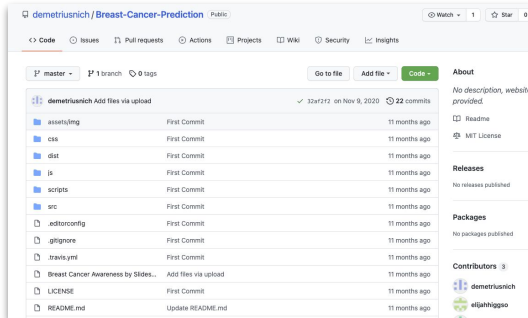
- Markdown (MD)
- HTML/CSS/JavaScript
- Liquid
- LaTeX

GitHub (Web) - Basics



Note: A GitHub repository will be required of all teams when reporting out during final presentations. (Examples <http://hackhpc.org/pasthacks/>)

[**HINT**] GitHub Pages is a powerful, free feature!



Breast-Cancer-Prediction

Breast Cancer Prediction Website

HEAD According to Georgia Department of Public Health and the Georgia Center for Cancer Statistics, breast cancer is the leading cause of cancer incidence in women citizens residing in Georgia. Breast cancer accounts for 30% of all new cancers found in women. Through prediction modelling, women can understand how risk factors play a part in prevention. Knowing these risks brings awareness and awareness brings about prevention

We created a website with prediction graphs showing the possible cases of breast cancer for 2020, and compared it to prior years. This site was created to spread awareness for breast cancer in Atlanta.

You can see what work was done on Google Colab <https://colab.research.google.com/drive/7N89pY4MS10UGUrVqSta7wFQ1yUzyV-I7usp-sharing>

This project was created by Demetrius Nicholson, Rayna Wynn, Elijah Higgs, Javier Guillen, and Tony Guy.

Data for this study was obtained from the BCSC: <http://bcsc-research.org/>.

Start Bootstrap - Grayscale

Grayscale is a multipurpose, one page HTML theme for Bootstrap created by Start Bootstrap.

Preview



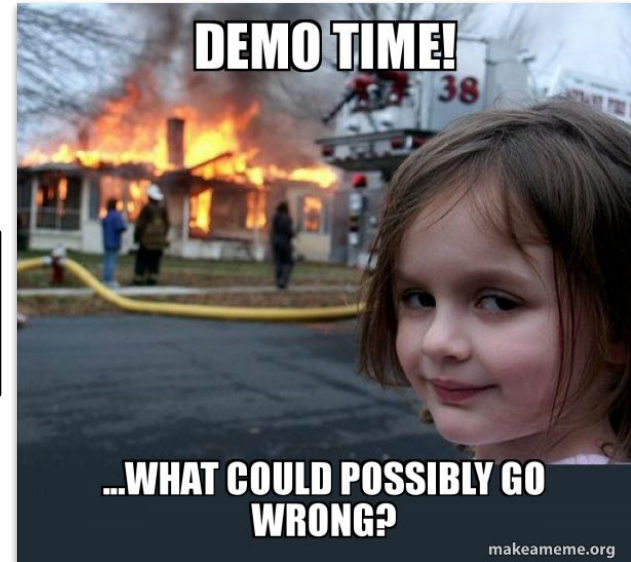


Repository Creation and README.md

Demo Time!!

Example GitHub Repo:

<https://github.com/jeaimehp/Git-Intro>





Github Resources and References

- **GitHub Tutorial** - <https://docs.github.com/en/get-started/quickstart/hello-world>
- **GitHub Pages** - <https://pages.github.com/>
 - Students guide to GitHub Pages - <https://codeburst.io/how-to-create-and-publish-a-website-a-students-guide-1ffd9fdd6b39>
- **GitHub Codespaces** - <https://github.com/codespaces>
 - [Note:] Codespaces is available for free for individual use for up to 60 hours a month and comes with simple, pay-as-you-go pricing afterwards. (Last Checked 6/21/23 Ref. <https://github.com/features/codespaces>)
 - Codespaces Primers and Development Pack - https://education.github.com/experiences/primer_codespaces
 - Overview - <https://docs.github.com/en/codespaces/overview>
 - Codespace Quickstart - <https://github.com/codespaceshttps://docs.github.com/en/codespaces/getting-started/quickstart>
 - Shutting down / Stopping Codespaces - <https://docs.github.com/en/codespaces/developing-in-codespaces/stopping-and-starting-a-codespace>
 - Pricing over 60hours a month - <https://github.com/codespaces>
- **Jekyll**
 - Jekyll Themes - <http://jekyllthemes.org/>
 - Serving Jekyll site locally - <https://docs.github.com/en/pages/setting-up-a-github-pages-site-with-jekyll/testing-your-github-pages-site-locally-with-jekyll>
 - Example Theme "Not Pure Poole" - <http://jekyllthemes.org/themes/not-pure-poole/>
 - GitHub Repo - <https://github.com/vszhub/not-pure-poole>
 - Demo site: <https://vszhub.github.io/not-pure-poole/>
- Liquid - <https://shopify.github.io/liquid/basics/introduction/>
- **Markdown Github Cheatsheet**- <https://github.com/adam-p/markdown-here/wiki/Markdown-Cheatsheet>
- HTML Cheatsheet - <https://htmlcheatsheet.com/>
- CSS Cheatsheet - <https://htmlcheatsheet.com/css/>
- Javascript Cheatsheet - <https://htmlcheatsheet.com/js/>
- YAML Tutorial - <https://spacelift.io/blog/yaml>
- Font Awesome
 - W3 Font Awesome Brand Icons - https://www.w3schools.com/icons/fontawesome_icons_brand.asp
- VS Code Source Code Editor and IDE - <https://code.visualstudio.com/>
 - VS Code Intro Videos: <https://code.visualstudio.com/docs/getstarted/introvideos>

Supported by:



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TACC

TEXAS ADVANCED COMPUTING CENTER



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Next Sessions:

- Tuesday [10/17] @ 5pmET
 - *Team Introductions*
 - *HPC Overview*
- Wednesday [10/18] @ 5pmET
 - *SGX3 Overview*
 - *HPC-ED Training Resource*