



Google Cloud



HPC in the City: *St. Louis*



SC21
St. Louis, MO | science & beyond.

HACKATHON

Beginning to End Project Example



Join the HPC in the
City Discord using
this QR Code!



Google Cloud



HPC in the City: *St. Louis*



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HACKATHON

Beginning to End Project Example

Agenda

- Introductions
- Hackathon Objective
- Deliverables and Resources
- General Information
- Beginning to End Project Example



Presenter: Je'aime Powell

Organizers



Linda Hayden - *ECSU*
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Boyd Wilson - *Omnibond*
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Amy Cannon - *Omnibond*
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Je'aime Powell - *TACC*
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Alex Nolte - *University of Tartu*
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Josh Kissel - *Omnibond*
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The Objective of HPC in the City: St. Louis

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

Student Deliverables and Resources

Deliverables:

- **Source code Including Comments**
- **PDF of presentation**
 - Team members with pictures
 - Use of HPC technology in the project
 - Regional (St. Louis) implications of the project
- **Github Repository Link**
 - README.md with project description

Resources:

- **Google Cloud (Provided Credits)**
- **Cloudy Cluster**
- **Most Commonly Used**
 - Python
 - Jupyter Notebooks
 - Node.Js (JavaScript)
 - Repl.it (Collaborative Environment)
 - HTML
- **Discord**
<https://discord.com/invite/rSXasYKDwE>



Join the HPCHack
Discord using this
QR Code!

General Information (the 3 T's)

- **Teams**

- 4-5 Students
- 1 Primary Mentor
- 1 Specialist/Staff

- **Time**

- November 4th - 8th
 - 11/4@~6pm ET Event Start
 - Team formation
 - 11/[5-8] @ 11 ET & 6pm ET- Checkins
 - 11/8@6pm ET-Final Presentations

- **Topic Examples**

- Data Analysis of COVID 19
- Economic disparities and their effects on college participation
- Genomics, Molecular Dynamics, or Weather Modeling in the Cloud.
- Social Justice
- AI-based Crowd Status
- Public Data Management
- Graduation Rates
- Broadband Access
- Insurance vs. Public Health Resilience

Presenter: Josselyn Salgado

Beginning to End Project Example

The Beginning to End Project St Louis Hackathon Intro

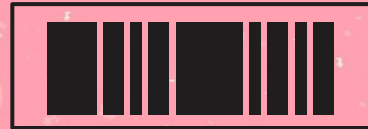


Table of Contents

❖ **Brief Introduction:**

➤ Who I am

❖ **Expectations**

➤ Where & How do I start?
■ (Program Usage)

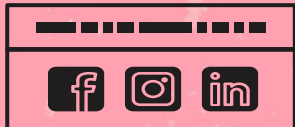
❖ **Collaboration**

➤ Student, Staff, & Mentor Inneraction

❖ **Activities**

➤ Ice Breakers, One Minute Update, & Quick Check In's
■ Prizes

❖ **Final Presentations**



~ Crucial Message towards Staff & Mentors ~



Contact Info

Do you have any questions?

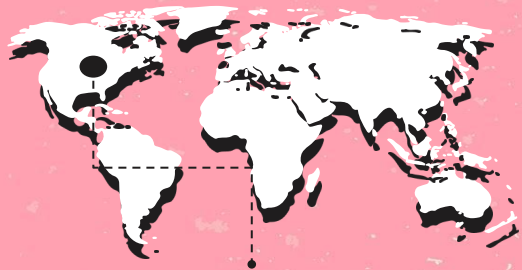
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algado

Origin



Outside the
Chicago Land Area, IL, USA

<https://www.linkedin.com/in/josselynsalgado>



Our Services

"You Have Believe In Yourself
When No One Else Does- That
Makes You A Winner Right There
"

– Vensu Williams

Characteristics



Consentency

When feeling
Overwhelmed.
Never Give Up!



Strong-Minded

Breathe
throughout the
circumstances
(Stay Calm)



Positive

Continue to stay
Positive ! Say I will
do this! I can
complete this!

Josselyn Salgado
(Josie)



**Student
Mentor
Science
Gateway
Community
Institute**





Educational Field

- Currently Working towards my Associates in Business
- School Involvement
 - Vice President Environmental Club & International Club
 - Pr & Treasure for Lation Alliance

Who Am I?



Languages

English & Spanish



Motivated

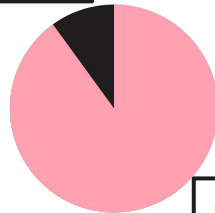
Always Doing My Best



Considerate

Ensuring That Everyone Needs Are Meet

10%



90%

Positive
Negative

Associate In Business

Graduate with My Associates!!

01

02

Real Estate

Obtain My Real Estate License!

Business

Open Up My Future Bussines

03

04

Help

Help As Many People As I Can!

Expectations

Where & How Do I Start?

Production Timeline:

- ❑ Project Scarp Up**
- ❑ Proposal Idea, Problem & Solution**
- ❑ Transitioning into Forming Your Team**
- ❑ Distributing Roles & Technical Skills**
- ❑ Frequent Check ins & Time Management**

Expectations

Where & How Do I Start?

Project Scarp Up

- **Implementation of the city we are basing it in**
- **Technical Skill Level**
- **Be Confident**



Expectations

Where & How Do I Start?

Past Project Example

- **FOCUS**
 - A Project that focused on AI
 - A video inputed & then analyzed the emotions(such as fear, distrtest, etc) & Twitter tagging the emotion of the video & posting it.
- Usage~Docker, Twitter, Linux, Github, Graphene Desing, Google Co-Lab, Presentation Skills, & Public Speaking Skills.
- All Kinds of Technical Background



Expectations

Where & How Do I Start?

Proposal Idea, Problem & Solution

- **Location Theme Of Project & Why It Represent The City**
- **Serviceable in The Area? (Try Checking the Data)**
- **How Can It Improve & Be Beneficial For The Citizens Surrounding the Area?**
- **Is It Possible? & If It Is, Can It Be More Than Just A Hackathon Project in the Future?**



WORK IN PROGRESS

Expectations

Where & How Do I Start?

Transitioning into Forming Your Team

- **Introduced with Teammates Personalities**
- **Understanding What Skill Set You Have as A Team**
 - **Is your Team Well Balanced?**
- **Does Your Team Understand What They are Doing & Are they Engaging (Such as Asking Any Questions or Comments?)**
- **Understanding What Skill Set You Have as A Team**



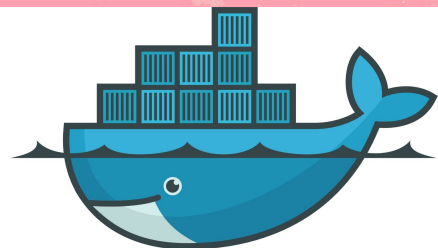
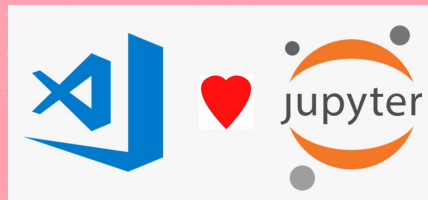
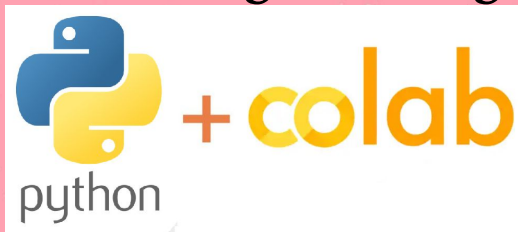
Expectations



Where & How Do I Start?

Distributing Roles & Technical Skills

➤ **Program Usage**



docker

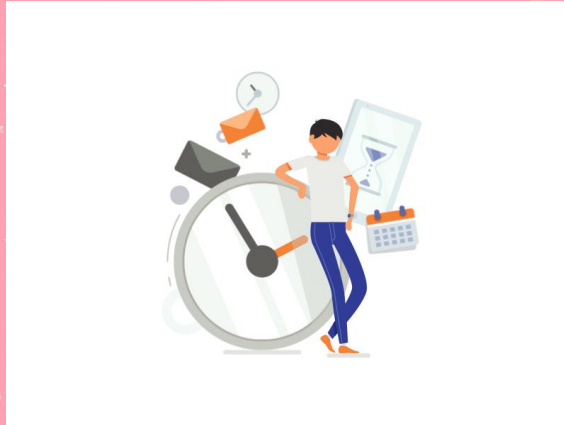


Expectations

Student, Staff, & Mentor Inneraction

Frequent Check ins & Time Management

- **Ensure you are staying at a steady pace!**
- **Daily Check Ins will occur!**
 - **1 Minute Time Frame**
- **Mini Challenges**



Collaborations

Where & How Do I Start?

Production Timeline:

- ❑ **Stabilization Throughout the Hackathon**
- ❑ **Proposal Idea, Problem & Solution**
- ❑ **Transitioning into Forming Your Team**
- ❑ **Distributing Roles & Technical Skills**
- ❑ **Frequent Check ins & Time Management**

Collaborations

Where & How Do I Start?

Production Timeline:

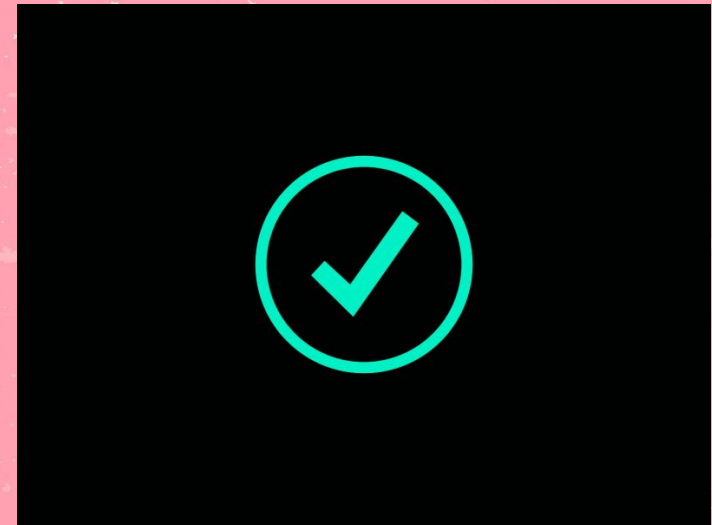
- ❑ **Stabilization Throughout the Hackathon**



Activities

Ice Breakers, One Minute Update, & Quick Check Ins **Content Topics**

- Pop Up Ice Breakers
- One Minute Updates
- Quick Check Ins
 - What To Expect

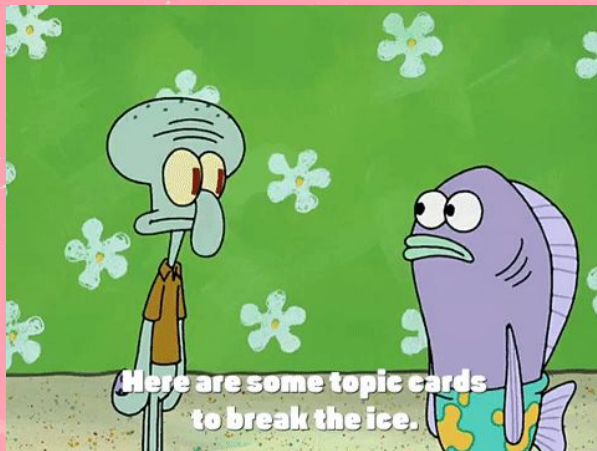


Activities

Ice Breakers, One Minute Update, & Quick Check Ins

Pop Up Ice Breakers

- **Short Warm Ups to introduce Teams Together**



Activities

Ice Breakers, One Minute Update, & Quick Check Ins **One Minute Meeting:**

- ❑ **Effective One Minute Form Team Meeting**



Activities

Ice Breakers, One Minute Update, & Quick Check Ins

Quick Check Ins:

- ❑ **Progressed Filled Slides**
- ❑ **Containing Any Progress Made**



Activities

Ice Breakers, One Minute Update, & Quick Check Ins
Prizes:

- ❑ **Surprise gifts!**
- ❑ **Knowledge of What They Are is unknown**



Conclusion

Final Presentations **Content Topics**

- ❑ Expectations
- ❑ Following Requirements



Conclusion

~ Crucial Message towards Staff & Mentors ~

**If You Don't Like Something Change It. If You Can't Change It,
Change Your Attitude.**

~Maya Angelou



Thank You!



Science Gateways
Community Institute



Questions and Concerns

Next Session:

- **Kick-Off!!!** - [11/4/21]

Schedule:

<https://jeaimehp.github.io/HackHPC-HPCintheCity21/>

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<http://hackhpc.org/hpcinthecity>

