



Google Cloud



globus online

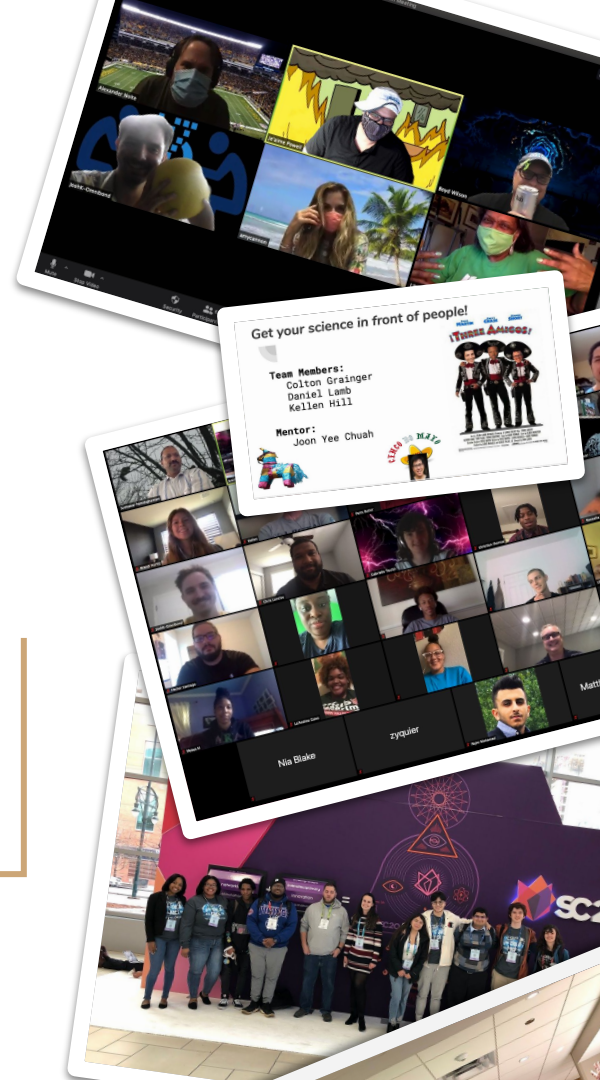


HPC in the City Project Overview and Data Science Training



SC20

Everywhere
we are | more
than hpc.



Agenda

- Introductions
- Hackathon Objective
- Deliverables and Resources
- General Information
- Project Overview
- Data Science Overview

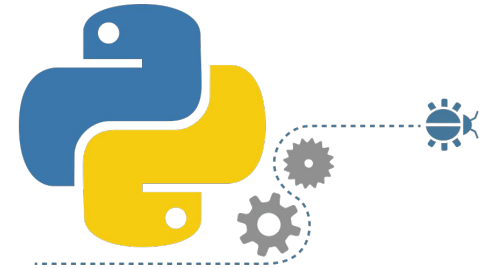
Team SMS2CCQ
Super Messaging Solution 2 Cloudy Cluster Queue

Christian R. Garcia, Avery Giles
Breana Moreno, Cindy Yongoueth

Mentor: David Reynolds

Project: CCQBot with Twilio

Goal: Use Twilio to build a chat bot that allows user to submit jobs and check status via text message



Organizers



Alex Nolte - *University of Tartu*
alexander.nolte@ut.ee



Boyd Wilson - *Omnibond*
boyd@omnibond.com



Amy Cannon - *Omnibond*
amycannon@omnibond.com



Je'aime Powell - *TACC*
jpowell@tacc.utexas.edu



Linda Hayden - *ECSU*
haydenl@mindspring.com



The Objective of HPC in the City

The hackathon aims to harness the resources, skills, and knowledge found in the HPC community in an effort to provide applied exposure towards the conference host city's local 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 an understanding of an Atlanta based issue through application of data analysis/presentation or management.

What you should expect to gain:

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



Team Deliverables and Resources

Deliverables:

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

Resources:

- Mentors/Specialists
- Slack (Ad-Hoc Communication)
- Google Cloud (Provided Credits)
- Cloudy Cluster
- **Most Commonly Used:**
 - Python
 - Jupyter Notebooks
 - Node.js (JavaScript)
 - HTML
- Datasets



General Information (the 3 T's)

- **Teams**

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

- **Time (*Draft*)**

- November 5th - 9th
 - 11/5@~6pm ET Event Start
 - Team formation
 - 11/[6-9] @ 11 ET & 6pm ET- Checkins
 - 11/9@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
- Presidential Election
- Public Data Management
- Graduation Rates
- Broadband Access
- Insurance vs. Public Health Resilience



Project Overview



Team SMS2CCQ

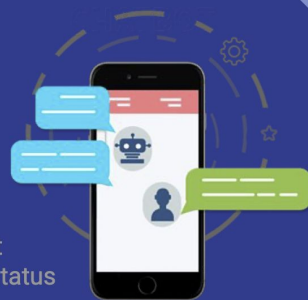
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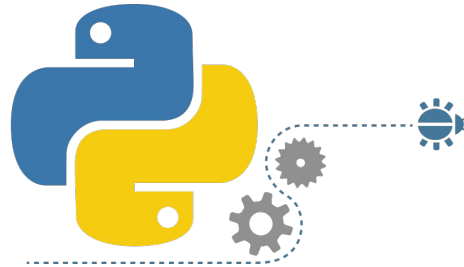
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Data Science Overview



Questions and Concerns

Contact Information:

Rich Asay

(Mentor - *Omnibond*)

Email: rich@omnibond.com

Twitter: [@rich_asay](https://twitter.com/rich_asay)

Charlie Dey

(Mentor - *TACC*)

Email: charlie@tacc.utexas.edu

Twitter: [@DeyCharlie](https://twitter.com/DeyCharlie)



HPC in the City

HackHPC.org/hpc