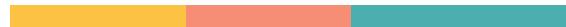




Welcome to
CUhackit 2022



Big thanks to
Stacy & Raven
from
Mock Turtle Soup



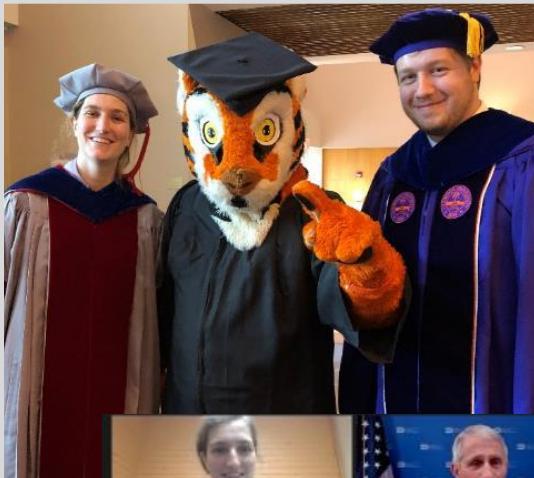
Delphine Dean

Professor, Bioengineering



About Me: Delphine Dean

- S.B., M.Eng., Ph.D. in Electrical Engineering and Computer Science from MIT
- Ron and Jane Lindsay Family Innovation Professor Department of Bioengineering, Clemson University
- finou@clemson.edu



A video conference call interface showing four participants:

- Delphine Dean (video feed)
- Anthony Fauci (video feed)
- Larry Corey (video feed)
- Audrey Pettifor (video feed)

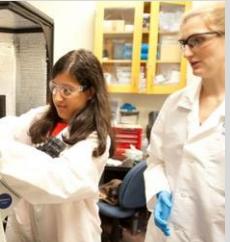
The interface includes a COVID-19 Prevention Network logo and the text "CoVPN 3006 – Prevent COVID U".



2022 // CUHackIt!

What do I do?

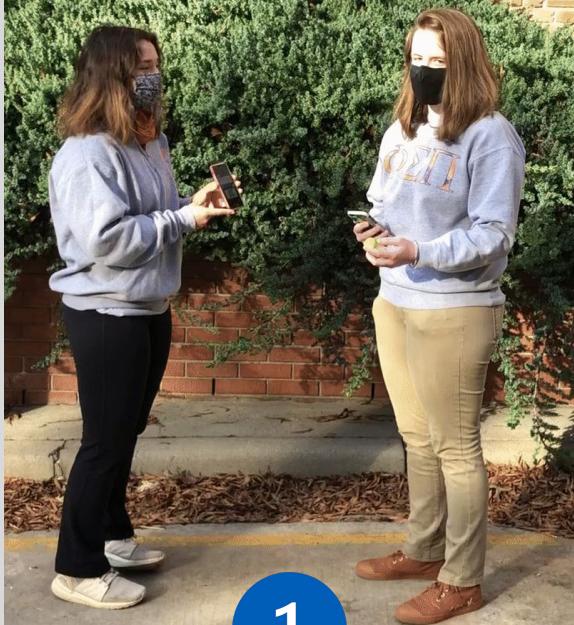
Hacking my way through an academic career...



1. Medical devices for low resources settings



2. Addressing COVID challenges

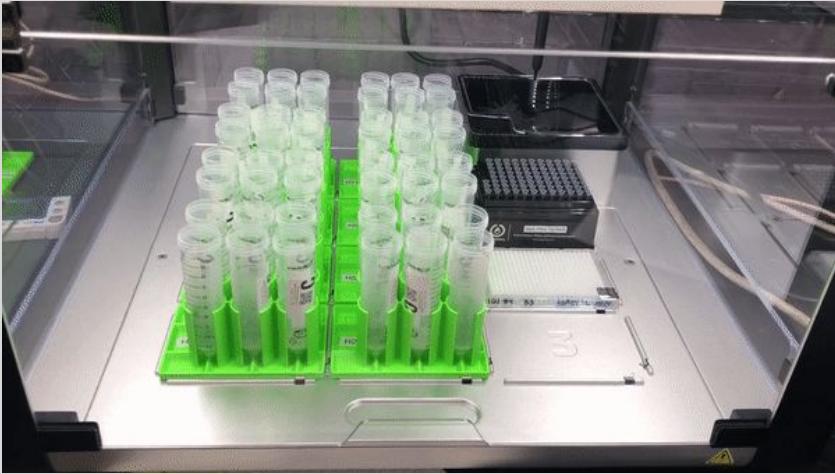


REDDI LAB 

Research and Education in Disease Diagnosis and Intervention

Robotic Systems: Samples loaded into plate

Use open-source liquid handling robot platform (14 robots)



REDDI Lab and Capabilities

Spring 2021: running 20,000 + tests per week

Fall 2021: running 30,000 + tests/week (4,500 - 7,500 test/day)

- Since opening, we have run nearly 1 million COVID-19 PCR tests
 - 90% result same day with 99.9% results within 1 day.
 - Largest days 9,000+ tests in one day
 - >1 in 20 COVID tests that have been done in SC have been done by Clemson REDDI Lab
 - 41,441 Clemson University / 58,847 community patients
- Running all Clemson University surveillance testing as well as tests for:
 - Local higher ed, retirement communities and local schools/daycares, correctional facilities
 - General community: collections at city park, remote vans to further communities

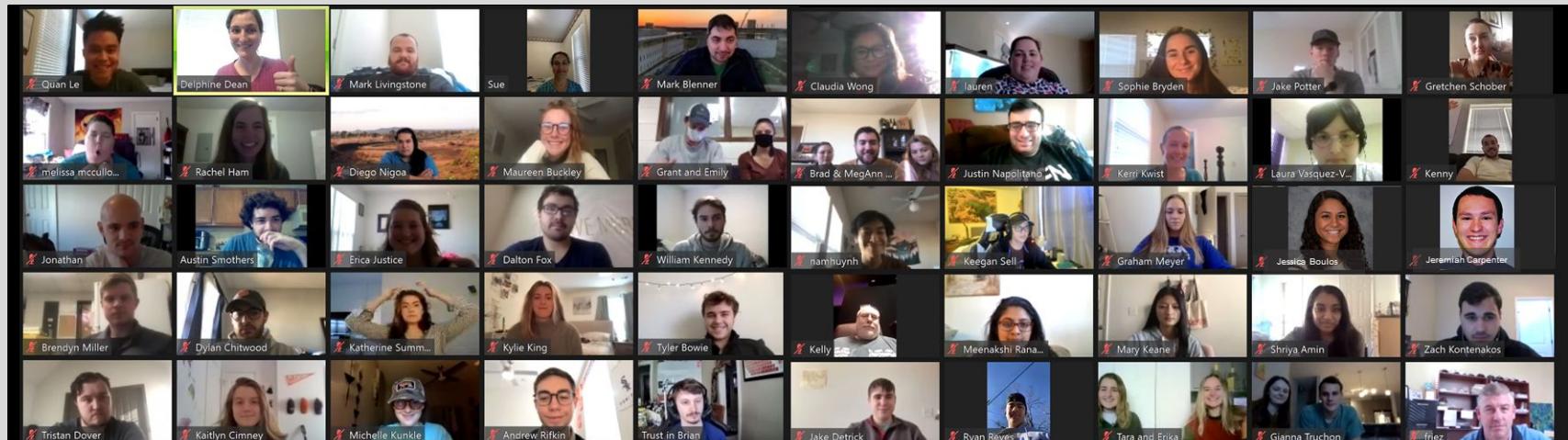




3. Multidisciplinary diverse collaborations for success

You won't get anything done if you sit in a room by yourself.

Seek lots of opinions and advice and surround yourself with diverse folks





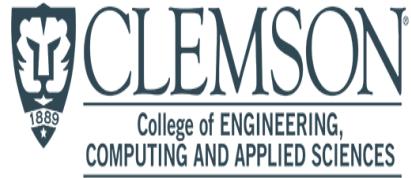
Thank You!
Good luck!!



CUhackit 2022

Sponsors

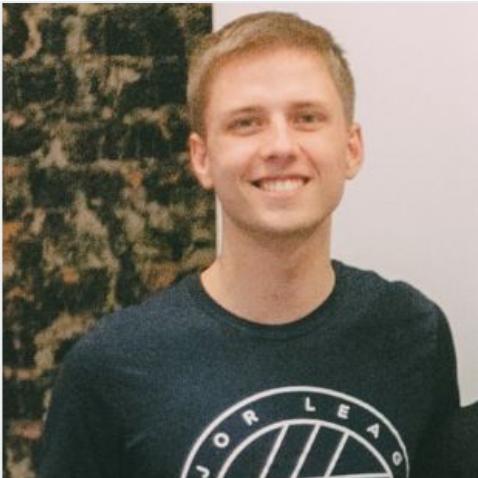




blackbaud®







Hey ! I 'm **Stephen**.

- Coach at Major League Hacking.
- Helping hackers at 12+ hackathons now.

Stephen from MLH

 @MLHacks

 @MajorLeagueHacking



Hey ! I 'm **Tom** .

- Coach at Major League Hacking.
- Attended 15+ hackathons as a hacker
- Helped organize 5+ hackathons

Tom from MLH

 @MLHacks

 @MajorLeagueHacking

Everything you need this weekend

hack.mlh.io

Connect with other hackers:

discord.mlh.io



What is Major League Hacking?



We are the Global
Hacker Community.

135,000

Hackers Just Like You!

Win Community Points!

Member Events

Local Hack Day

Localhost



What are we doing this weekend?

Everything you need:

hack.mlh.io

Take a break this weekend

MS Paint

Bob Ross

Mini-Event

6:30 pm, Sat.





Take a break this weekend

U.S. Air Force Cybersecurity Challenges

???:?? ?? @ Location





Grab a beautiful limited edition

2022 Season

Mascot Tee!

while supplies last!



Draw an Octocat

Win an Octocat !

GitHub



Tweet your entry at **@GitHubEducation**

@mlhacks with **#MyOctocat #CUhakit2022**

GitHub Student

Developer Pack

Claim your free developer tools:

hackp.ac/github



We have all the resources you need.

Everything you need

hack.mlh.io



Build a hack with any Twilio API

Use your FREE
\$50 Trial!

No credit card needed!

Get started at:

hackp.ac/twilio



Claim a free **.tech** domain

Free Domain .com

Domain Name

Register your free domain:

hackp.ac/domain

Weekend code:

2NDSEMESTER



In need of some serious compute power? Get a

Free 3 Month MATLAB License

Best Use of MATLAB wins some swag!

For more details, head over to:

<https://hackp.ac/MATLAB>



Free Google Cloud Credits

\$50 at a time. Up to \$100 per account.

Check your pre-event email for more details!



Build the Best Space App

The Sky Is Not The Limit!

For a chance to win a
Wireless Bluetooth Speaker!

Get inspired at:
hackp.ac/USSF



Get 30 days of free cluster access & unlimited usage with

CockroachDB

Get your hack started at:

hackp.ac/CockroachDB

Show off your hack and earn

I Demoed

Sticker



Earn one by demoing!

Hackathon Starter Kits



Get started faster this weekend:

hackp.ac/learn

MLH

MLH Career Lab

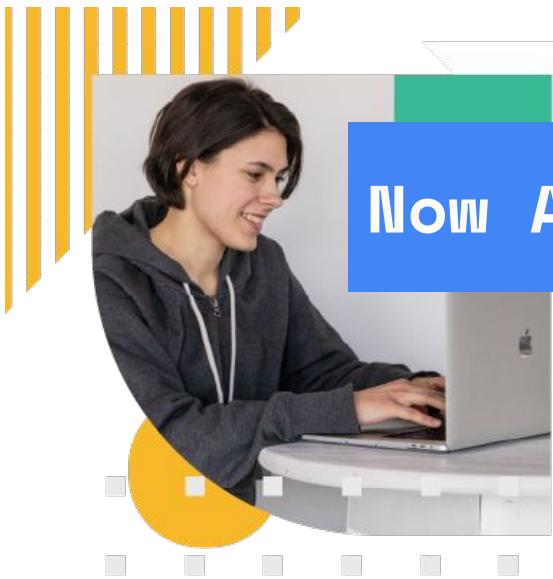


U.S. SPACE FORCE

Land an awesome job or internship:
hackp.ac/careers

MLH Fellowship

The **MLH Fellowship** is a remote professional development program for aspiring software engineers.



Now Accepting Applications for 2022

Summer Semester begins soon!

Learn More and Apply:

fellowship.mlh.io

On a Serious Note...

MLH Hackathons are a Safe Space
for **Everyone**.

mlh.io/code-of-conduct

Email: incidents@mlh.io

Phone: +1 (409) 202-6060

Thanks Again to All Our Partners!



Google Cloud



GoDaddy Registry



B BRAND MAKERS

MLH



 @MLHacks

 @MLHacks

 @MajorLeagueHacking



CUhackit 2022
Awards





**Put Your Paw
in the Cloud**

c u
h a c k
i t





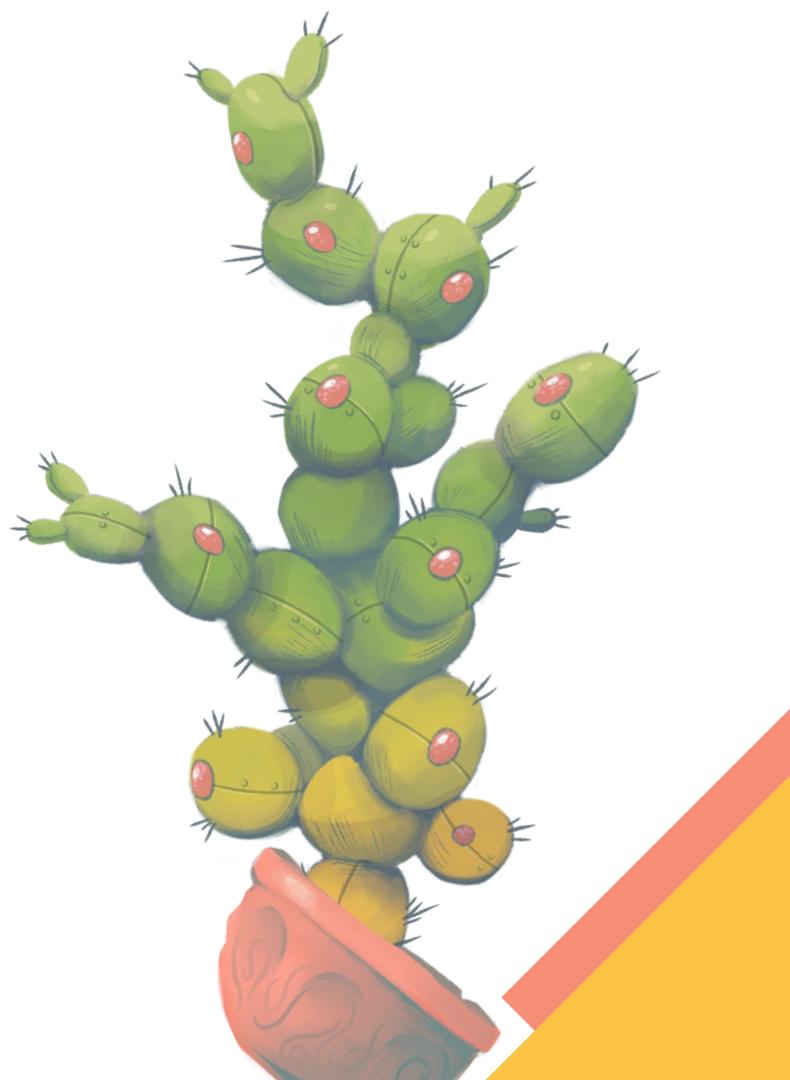
AssemblyAI

**Best use of
AssemblyAI**
\$50 Amazon gift card per person



Best Hardware Hack

Arduino Starter Kit



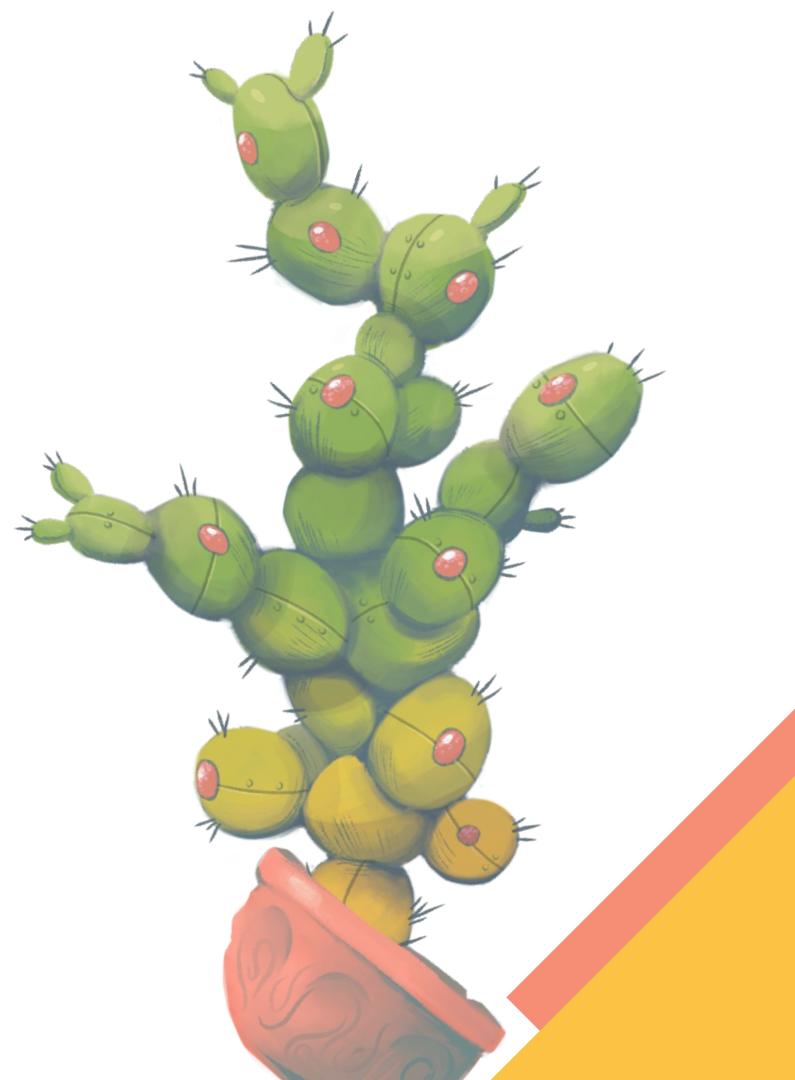
Hack for the People

Fitbit Versa 2



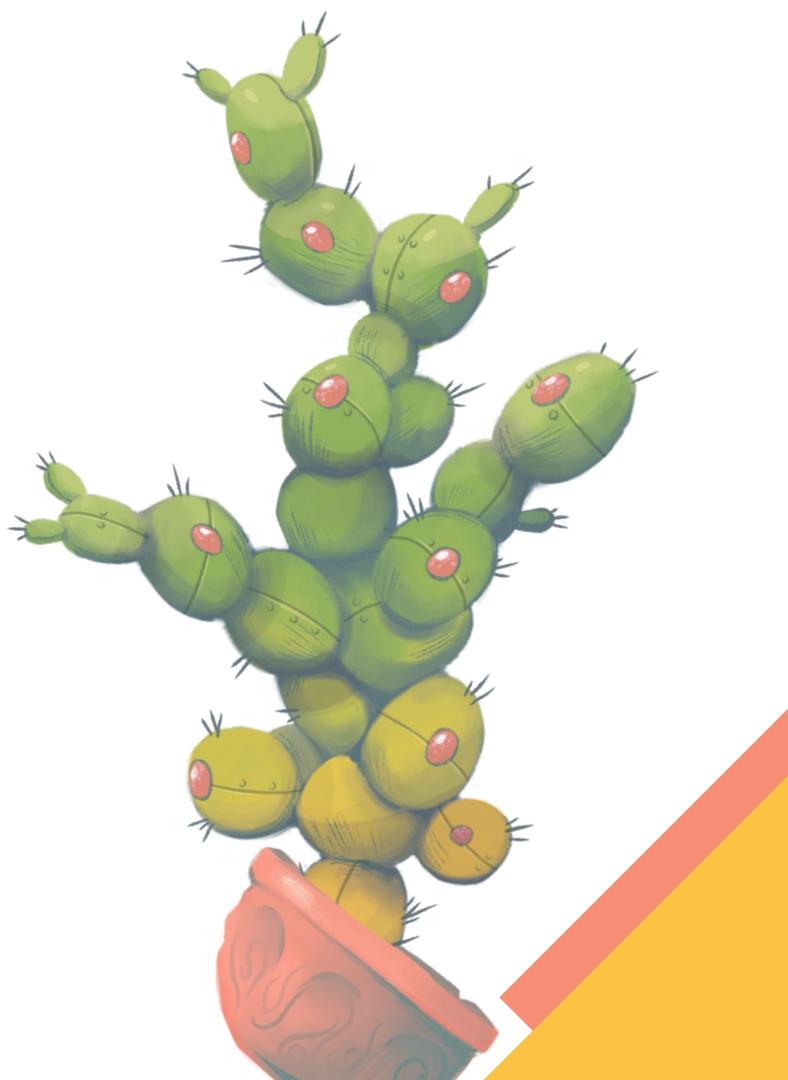
Best Use of Data

Apple Airpods



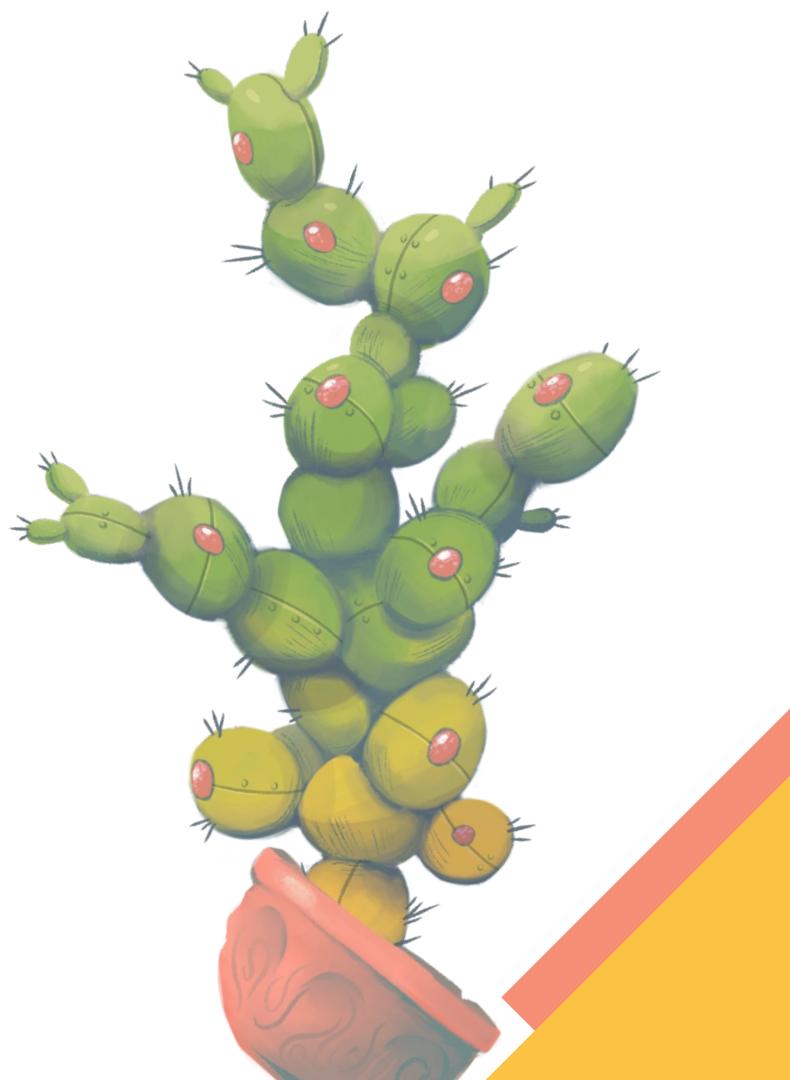
Beginner's Hack

Echo Show 5

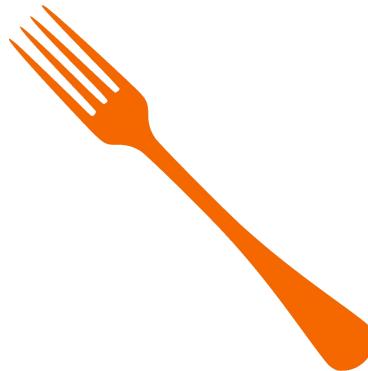


Most Ingenious Hack

Nintendo Switch Lite



Event Rules





Join the event
Discord:

tinyurl.com/cuhackit

Schedule Overview

<i>Day 1: Saturday Jan 29th</i>	
<i>Time</i>	<i>Activity</i>
10:00	Hacking Begins!
10:00	Idea Jam
11:30	Lunch
12 - 5	Sponsor Fair



<i>Time</i>	<i>Activity</i>
12 - 5	Makerspace
1 - 5	Workshops
5:00	Dinner

Schedule Overview

<i>Day 2: Sunday Jan 30th</i>	
<i>Time</i>	<i>Activity</i>
12:00	Midnight Snack
8:00	Breakfast
10:00	Devpost due!
11:00	Judging



<i>Time</i>	<i>Activity</i>
11:00	Lunch
1:30	Closing Ceremony

Hacker Activities

<i>Day 1: Saturday 29th</i>	
<i>Time</i>	<i>Activity</i>
1 - 4	Immersive Space
6:00	Cup stacking
6:30	Snake on the Big Screen
7:00	Jackbox Games



<i>Time</i>	<i>Activity</i>
9:00	Karaoke

Hacker Guide



Need Help? Help Desk



Team Formation

