



# Discover Your Craft

October 22-24, 2021

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## Welcome!

Welcome to HackGT 8, we're so excited you're here and ready to Discover Your Craft with us this weekend! HackGT is a 36-hour hackathon where students across the country will come together to show off their creativity and passion for development. HackGT will be hybrid this year from Friday, October 22nd 5:30pm EST to Sunday, October 24th 3:30pm EST.

This packet will serve as a living document and help you navigate all the different things we will be offering at this year's event, including how to use our in-house technology, how to connect with sponsors from all around the U.S., and more! We can't wait to see where your creativity takes you this weekend, and all the fun you'll have at the in-event workshops and activities.

#### MLH Code of Conduct

As a participant of HackGT, you have signed and agreed to the MLH Code of Conduct as part of your application. All participants are expected to uphold this Code of Conduct throughout the event and can face consequences such as expulsion for any act of misconduct. To review the full Code of Conduct, please visit the MLH website HERE.

If you would like to report an incident, you can

- Reach out to any HackGT Staff Member on Discord (all HackGTeam members are denoted [Staff] <Name>),
- 2. Call the HackGT line at +1678 870 4225, or
- 3. Email hello@hexlabs.org

Our goal is for HackGT 8 to be an inclusive and enjoyable experience for all, so don't hesitate to contact us if you feel uncomfortable in any way.

# HackGT App

Download the HackGT app for iOS and Android! Find events that interest you, personalize your schedule, and access important event information and links all in one place! Stay up to date on events happening now and up next to take advantage of all that HackGT 8 has to offer.

#### **Event Discord**

Our main event will be hosted on Discord! Discord is a voice, video and text communication service used by over a hundred million people. <u>Here</u> is a video to help get you acquainted with the platform. You can download the desktop app here: <a href="https://discord.com/download">https://discord.com/download</a> or just attend through the browser.

To join the HackGT 8 Discord, visit <a href="https://join.hack.gt">https://join.hack.gt</a>

## Klaus Layout

#### Klaus Level 1

#### Hacker Rooms:

5 - Rm 1456 1 - Rm 1328 2 - Rm 1347 6 - Rm 1443 3 - Rm 1357 7 - Rm 1447 4 - Rm 1364 8 - Atrium

#### **Event Spaces:**

9 - Hardware Desk

10 - Help Desk/Info Booth

11 - Food

12 - Sponsors

## Klaus Level 2

#### **Hacker Rooms:**

1 - Corr 2200 2 - Corr 2425 3 - Rm 2456 4 - Rm 2443

6 - Rm 2112 7 - Space outside Rm 2100

## **Event Spaces:**

8 - Sponsors

### Klaus Level 3

#### **Hacker Rooms:**

1 - Rm 3307 2 - Rm 3317

3 - Rm 3326

4 - Rm 3357

5 - Rm 3312

6 - Space outside Rm 3110



## Schedule & Events

#### Live Site

Live site is your one stop shop for the event! The event schedule will be available at <u>info.hack.gt</u> on Thursday, October 21st. Make sure you've joined our Discord and check out the HackGT 8 live site for any other information you might need.

#### Check-in

If you were accepted to come to HackGT 8 In-person, check-in will be at the CULC. You will need to show the QR code from the registration portal at <u>registration.2021.hack.gt</u> and your Georgia Tech Buzzcard. If HexLabs is unable to confirm your status as a current Georgia Tech student, you will be denied entry to the in-person portion of the event.

If you were accepted to come to HackGT 8 virtually, then you just need to join the Discord and you are all set! Attendance will be tracked through your interactions on our virtual experience site (link coming soon)!

## **Opening and Closing Ceremonies**

Join us for opening and closing ceremonies at HackGT 8!

Opening Ceremonies will begin promptly at 6:00pm EST on Friday, October 22nd, hosted at CULC 144 and on a YouTube Live Stream. The link for the event can be found on info.hack.gt on Friday, October 16th. Opening ceremonies will cover all the information you'll need to know for the event, and will feature speakers from our top sponsors, and MLH!

Closing Ceremonies will take place at 2:30pm EST on Sunday, October 24th after project submission and judging has ended. Closing ceremonies will take place at CULC 144 and on a YouTube Live Stream and will include the winners of the general and emerging tracks, along with presenting a handful of our sponsor prizes.

## Sponsor Fair

Sponsor fair will be taking place directly after Opening Ceremonies at 8:00pm EST on Friday, October 22nd. The fair will utilize HackGT's Insight platform, which you can learn how to use <u>HERE</u>. During sponsor fair and throughout the event companies will have their own video call rooms, where you can go and speak to representatives and recruiters. Times companies are active

can be seen on Insight. Additionally, make sure to check out #sponsor-<company> channels in our Discord to connect with sponsors there as well!

## Speakers 🥕

We want to show you how computer science and technology have grown at Georgia Tech and guide you in your future career. We have two great speakers for you to learn from and ask questions!

- Chris Klaus, Founder and CTO of ISS
- Yvonne Druyeh Dodd, Career Coach

All speaker events will be streamed live on Facebook and Youtube.

Have questions for some of the speakers? Submit a question through this form!

We may feature you and your question during the live stream. You can optionally submit a video briefly introducing yourself and asking your question, and we may play your video on the live stream! It's okay if you don't have questions now. You can still ask questions during the speaker event itself.

To view when each speaker event is happening, check the schedule at info.hack.gt (on Thursday, October 21st).

# Workshops 🧠 💆

We are excited to partner with some amazing organizations on Georgia Tech's campus and the Atlanta area to host workshops. These workshops are geared towards Emerging participants. Here is a quick preview of our workshops:

- App Development: The App Dev Learning Path covers Android, iOS, and web development; you can choose as many of the options as you'd like! You will be introduced to the basics of Android app development using Android Studio or iOS development to build native mobile apps. We will also step through the entire process of creating a simple full-stack web application using JavaScript.
- Data Science: The Data Science Track will cover the entire data science process from A to Z, beginning with data analytics to machine learning. You will learn how to gather, clean, analyze, and visualize large data sets, and also develop machine learning algorithms.
- Posign: The Design Track will teach you the fundamentals of user interface/user experience (UI/UX) design from user research to creating beautiful mockups and

prototypes. Gain skills and knowledge vital to the product development process and apply them to create effective user-centered apps and websites.

• Systems: In this track, we will be going over the basics of systems development. We'll be exploring robotics and embedded systems. By the end of the path, you'll be able to apply your skills to your own hackathon project!

The full schedule and descriptions will be available at info.hack.gt (on Thursday, October 21st)

#### Mini-events

Need a break? Want to meet other people and have some fun? Mini-events are a great way to destress, win some prizes, and earn points to get swag (more about swag <u>here</u>)! Some activities include:

- Waffle Making
- Movie/Short Film Viewing
- Bob Ross Painting
- Virtual Escape Room

And more! More details will be provided at info.hack.gt (on Thursday, October 21st).

## CTF x GreyHat

HackGT and GreyHat @ GT have partnered to create an internal CTF during HackGT 8! Sponsors like the NSA and Praetorian will also be contributing problems as well! Visit the challenges at <a href="mailto:ctf.2021.hack.gt">ctf.2021.hack.gt</a>! Feel free to try some of the problems and get points!

# Resources 💼

## Google Cloud Credits

Google Cloud is offering students a \$50 Google Cloud credit. Participants can claim their credit by using this link - <a href="http://goo.gle/CloudHackathonCredits">http://goo.gle/CloudHackathonCredits</a>. The credit request form on the morning of Friday October 22nd.

#### The Hive and Invention Studio

Need to laser engrave, 3D print, solder, or more? We will have The Hive and Invention Studio open to in-person participants only. The hours of operation are:

The Hive: 11am - 3pm on Saturday, October 23rd Invention Studio: 3pm - 8pm on Saturday, October 23rd

#### **EchoAR**

This resource is a cloud platform for augmented and virtual reality (AR/VR) that provides tools and server-side infrastructure to help developers & companies quickly build and deploy AR/VR apps and experiences. For 1-month FREE access to all Business Plan features of the echoAR platform, register here:

https://console.echoar.xyz/#/auth/register-promo?code=HackGT8

For any questions:

echoAR documentation echoAR Slack support channel echoAR GitHub page echoAR workshop recording

## Repl.it

Repl.it is a simple yet powerful online IDE, Editor, Compiler, Interpreter, and REPL. Code, compile, run, and host in 50+ programming languages in a collaborative environment. Participants can claim a 14-day free trial at: <a href="https://replit.com/claim">https://replit.com/claim</a>

Code: hackgtpa

# Hardware Desk (In-person)

ONLY FOR IN-PERSON TEAMS: Need hardware? We have you covered. Use <u>hardware.hack.gt</u> to request items, we will collect your ID at the hardware desk, and you must return hardware by closing ceremonies. The hardware desk is located on the first floor of Klaus in the atrium.

## Hardware Reimbursement (Virtual)

ONLY FOR FULLY VIRTUALLY TEAMS: If you need hardware for your project you can fill out this form for reimbursements, the deadline is Friday, October 22nd at 11:59pm. Depending on your application you may be eligible for up \$75 of a reimbursement after the event. You will need to have a valid submission to devpost and receipts of your purchases. Here is the form.

# Team Formation

Need help finding a team? Be sure to check out our new interactive team formation platform at teamformation.2021.hack.gt! All team formation will be virtual this year. Here you can connect with other participants before and during the event and find teams based on school year, interests, and more. Please join the event Discord prior to logging in so you can receive notifications when someone sends you a request.

Teams can be up to 4 members in size. You can form teams across tracks (i.e. have both General and Emerging hackers), and you can form teams between virtual and in-person participants. To be eligible for the Emerging Hacker Mentorship program and for Emerging track prizes, your team must be 100% Emerging hackers.

A video tutorial on how to use Team Formation will be released in the next upcoming days.

## Mentors

We have some awesome mentors available throughout the event to help you and your team with your project! The mentorship bot is for one-on-one guidance while the Piazza is used for community help.

# Mentorship Bot 🤖

All participants can ask questions directly to mentors through our Discord Mentorship bot. To use the bot:

- 1. Begin by finding the #mentor-questions channel in the channel directory in Discord.
- 2. Type "/mentor <Your question>" in the message line.

Your question will then be sent to our mentors, and one of them will reach out to you on Discord. From here, you and the mentor can work out the question, hop on a call, etc.

If a mentor does not reach out to you within 30 minutes, send a message to #questions and the HackGT Team will help.

#### Piazza

Participants will have access to a Piazza forum! You can use this to ask questions about your project, debugging help, ideation, event logistics, etc. Mentors and staff members will be closely monitoring the Piazza. Note that you can also ask questions on Discord, but it will be limited to only minor clarifications.

Join Piazza here: piazza.com/hexlabs/fall2021/hat8 Access Code: 1000

You can use your school account. If you have to create an account, you can use "HexLabs" as the school name.

# Sponsors

Our event is not possible without the support of our amazing sponsors. We have several ways participants can interact with company recruiters and engineers.

## **Sponsor Challenges**

The companies below will be presenting a challenge at HackGT 8. These will be judged during Round 2 (more information about the judging process <u>here</u>). Stay tuned for the full challenge details to be released later this week!

BlackRock

**NCR** 

NSA

Anthem

## Sponsor Portal

As a participant at HackGT, you'll have the opportunity to network with all 18 of our sponsors through our tool, Insight. This will be used during sponsor fair and throughout the whole event, and this portal requires you to log in with the same account you used for registration. In this portal you can see all pertinent information about each company, and when a company representative will be active in their booth!

The link for Insight will be released before opening ceremonies on Friday, October 22nd.

## Sponsor Tech Talks

Throughout the event sponsors will be hosting tech talks, where they'll teach you about a technology you can use on your project! Most often it is a technology created by the company, but can differ from sponsor to sponsor. Check out all the sponsor tech talks we'll have at <a href="info.hack.gt!">info.hack.gt!</a> (Available on Thursday, October 21st)

## **Sponsor Mini-Challenges**

Mini-challenges are 30 minute, non-project challenges, such as a CTF or coding competition, hosted by our sponsors. Participants can take part in these as a fun break from their projects, meet sponsor engineers and recruiters, and win prizes!

### **Full Sponsor List**

Thank you to all of our amazing sponsors for making HackGT 8 a reality!

# **BlackRock**







































This year at HackGT 8, we'll have options to earn swag whether you are in-person or virtual! Each event and activity will count for points towards qualifying for swag.

**If you are virtual**, we will have three tiers of swag, and you must attend events to accumulate points to claim that swag. Below is an outline of how you can earn points and what each swag tier includes!

**If you are in-person**, we will have a swag economy, and you must attend events to accumulate points to obtain swag. There will be no tiers. Swag items will be individually available at different point values.

\*For valid U.S. addresses only

#### How To Earn Points

After finding the events you'd like to attend on info.hack.gt, you'll visit the event using the link in the live schedule. These links will make sure you receive points for that specific event, and then redirect you to the correct video call. All of these links will be available on info.hack.gt. (On Thursday, October 21st). If you are in-person, we will check you in at the beginning of the event.

## Points System

Event	Points (per instance)
Opening Ceremonies	10
Joining Discord	5
Speakers	20
Emerging Workshops	20
Mini Events	10
Sponsor Workshops/Tech Talks	20
Scavenger Hunt	20
CTF Problem- Easy	15-20
CTF Problem- Medium	20-25
CTF Problem- Hard	25-30
Visiting Companies during Sponsor Fair	5
Submitting project to Devpost	50

Closing Ceremonies	10
Closing Ceremonies	10

## Swag Tiers - Virtual Participants

Swag Tier	Points Needed	Swag
Tier 0	0	Virtual swag pack
Tier 1	50	Tier 0 + Sticker sheet
Tier 2	110	Tier 1 + HackGT 8 T-shirt
Tier 3	175	Tier 2 + Enamel pins + Plastic Keychain

## Swag Website + Shipping (VIRTUAL ONLY)

The swag website will be available to access at the start of the event on Friday, Oct. 22nd You can track the amount of points you have received throughout the event and claim your swag tier at our website, swag.hack.gt. Swag tiers will be offered on a first come, first serve basis. If the quantity of that tier has fallen to zero by the time you have requested it, you will have to choose another tier. You will be able to change your tier and address up until Sunday, October 24th at 8:00pm EST.

#### **Shipping Addresses**

On swag.hack.gt you will confirm the address that you would like your swag shipped to. Addresses can only be valid U.S. postal addresses. You can change your address up until Sunday, October 24th at 8:00pm EST. Any changes to your finalized address must be submitted by that time.

# HackGT Awards and Prizes 🏆



This year, we are introducing new and bigger prizes, and prizes specifically for Emerging Hacker teams. We can't wait to see what you create at HackGT 8!

#### HackGT 8 Overall Prize

- 🥇 1st Place Overall Team \$7k
- 2nd Place Overall Team \$5k
- 🥉 3rd Place Overall Team \$4k

# HackGT 8 Open Source Prize



75 Top Team - \$4k

\*If you are competing for an open source prize, you cannot compete for any other prize category including the overall prize.

## Other Prize Categories

\$2k will be awarded to each of the following categories

Category	Criteria
Best Social Impact 💥	Best hack relating to social impact/social good, ideally creates a positive impact on the broader community.
Best Design 🔌	Creatively incorporates accessibility, awesome UI/UX (aesthetics). The design should be original, and not just a rehash of something else.
Best Hardware Hack 🌣	Best hack incorporating some form of hardware, cool integration of hardware and software, using the resources provided.
Most Sustainable Hack 🋟	Best hack relating to sustainability, or the environment. Ideally, the impact of the project extends beyond HackGT and into the real world.
Most Unique/Out of the Box/Creative	Show us something we've never seen before or approach a problem in a unique way.

## **Eligibility**

Teams can consist of up to 4 members. These members can consist of General Hackers, Emerging Hackers, or any mixture of the two.

#### **General Criteria**

Projects will be evaluated on the following criteria

- Project Intentionality: What is your reasoning for the choices you made to create your project?
- **Significance:** Does your project add or introduce something new and valuable to the world?
- **Presentation:** Is your project well documented online? Can you explain your project well to a judge?
- **Technical Depth:** How did you utilize or integrate the technology in your project? Does it reflect technical skill and understanding?

#### **Open Source Criteria**

In addition to the above criteria, open source projects will be evaluated on the following. They will not be eligible for any prizes outside of this track.

- **Scope:** What were the intentions of the open source project and its impact on the larger community?
- **Team Contribution:** What did they add during the hackathon? Was it an original idea that they added, or did they simply clean up some minor code, or something in between?

#### **Judging**

Projects being considered for the Overall Award will go through all 3 rounds of judging (more about judging <u>here</u>).

## **Emerging Hacker Awards**

**Eligibility:** Teams must have no more than 4 members, and all of the members must be Emerging Hackers. You must indicate in your submission you want to be considered for these awards.

**Judging:** The winners of each award will be determined at the end of Round 2 of Judging (more about the judging process <u>here</u>).

Category	Prize (per member)
Best Overall Award 🏅	Beats Headphones
Best in App/Web Development	Rocket Book AND Leuchtturm 1917 Notebook

Best in Data Science 📊	Playing Cards AND 7-in-1 Game Set
Best in Design 🤮	Calligraphy Set
Best in Systems 💻	Retro Game Console
Best Prototype 🔨	3D Wooden Puzzle
Best Presentation Q	<u>Laser Pointer Pen</u>

## Sponsor challenge prizes

#### NCR

- Challenge #1 Best Use of NCR APIs
  - O Prize: 1st Apple Watches
  - 2nd Apple iPads
  - O 3rd Apple Airpod Pros
- Challenge #2 Best Use of Cryptocurrency
  - Prize: Crypto Hardware Wallets (Trezor One for Winners, Ledger nanos for honorable mentions)
- Challenge #3: Retail Gamification
  - O Prize: Oculus Quest 2 VR Headsets
- Challenge #4: Machine Learning in Retail
  - Prize: JBL Sound Bar + Subwoofer

#### BlackRock

- 1st place \$150 Amazon gift card per person
- 2nd place \$75 Amazon gift card per person

#### Anthem

• More info coming soon!

#### NSA

- Secure the Server Challenge: \$1000 B&N gift card for your team
- Secure Code Zero Trust Challenge: \$1000 B&N gift cards for your team
- NSA's Codebreaker Challenge
  - o 1st Place B&N \$500 gift card
  - 2nd Place B&N \$300 gift card
  - 3rd Place B&N \$200 gift card

# Project Submission



This year we have changed how teams will submit their projects to accommodate the virtual judging process. Here are the two steps you must take to submit your project and be considered for any awards.

\*\*\* View our policy of project submission eligibility and cheating here.

#### 1. Submit your project and Devpost link at expo.hack.gt

\* expo.hack.gt will be available on Saturday, October 22nd.

This year we are introducing a new submission system to ensure that your project is submitted correctly! To be eligible for judging, you must submit your project at expo.hack.gt and link your Devpost project URL.

Make sure to include which awards you want to be considered for at this site (all teams are automatically considered for the overall award). You must do this in both your Devpost submission and here!

We'll automatically verify that your project is submitted correctly and enroll your team for judging. This portal will be your go-to location throughout the judging process so make sure your project is submitted there!

#### 2. Post your project on Devpost

All projects that want to be considered for judging must be submitted by 8:00am EST Sunday, October 24th on HackGT's Devpost. Make sure to include the following in your Devpost submission:

- A video demoing your project (no more than 2 minutes in length). Treat it like a demo you would give to a judge if it were in person
- A brief description of your project
- Links to your Github repository or other documentation
- What awards you would like to be judged for (sponsor, emerging, etc).

Here it the Devpost link: https://hackat8.devpost.com/

#### Minimum Submission Criteria

Criteria #1: You must submit a video of less than 2 minutes with your submission on DevPost.

- Your computer screen (or mobile device) must be clearly visible in the video.
- You must show your product, regardless of completeness.
- This video should consist of a demo similar to what you would show a judge at an in person expo.

Criteria #2: You must submit a Description of your project on DevPost.

• The video should substantiate what was included in the description.

Criteria #3: You must submit documentation or code for your project.

- This should be a GitHub link
  - Any contributors to your repository must be listed on DevPost and your submission through expo.hack.gt
  - If your code is forked from another repository it must present a significant addition of functionality
- Non-GitHub links require prior approval
- Your code must meet the time restrictions present in our cheating policy
- Only boilerplate code (initializing projects or other code that doesn't directly contribute to functionality) can be written before the event

If your project does not meet these minimum requirements, you will not proceed to Round 2 of Judging (more about judging <u>here</u>).

## **Cheating Policy**

By submitting your project to HackGT 8, you affirm:

- The project was created during HackGT 8 (between 9:00pm EST on Friday,
  October 22nd and 9:00am ET on Sunday, October 24th). You are allowed to use a
  template or set up boilerplate prior to the event. However, the bulk of the work
  must be done during the event.
- The project has not been submitted to any other hackathons or competitions
- Only the people listed in the submission worked on the project
- The project is the team's original work. You are allowed to use existing open source code (e.g. npm), use resources such as Stack Overflow, and consult with mentors. If

you use template or open source code, please provide the link as a citation. You cannot use an already existing project as your submission. Your project must add significant new functionality.

We reserve the right to monitor for cheating both manually and using automated technologies. Projects that do not meet these requirements will be excluded from judging and be ineligible for prizes. Any project in violation of the cheating policy will automatically be removed from judging.

# HackGT Judging Process 🔥



To accommodate for a hybrid environment, judging will be virtual for all participants.

Judging Round 1: 8:00am - 10:00am EST

As long as you've submitted your project on time (instructions on how to submit here), no action is required on your part during Round 1.

Projects will be pre-screened prior to live judging to ensure they meet the minimum requirements. While most projects will advance to round 2, projects with incomplete or low-quality submissions may be eliminated at this stage.

Judging Round 2: 10:00am - 12:30pm EST

Expo 1: 10:00am - 11:00am EST

**Expo 2:** 11:30am - 12:30pm EST

Check expo.hack.at to see if your project was selected for Round 2 and for the video call link. Please stay in the video call for the full duration of the expo! It's like your physical table at an in-person hackathon judging session.

If you are selected for Round 2, you will be randomly assigned to one of two 60-minute expos. During the expo, judges will visit your video call room (more on that below) to evaluate your project for the HackGT Overall Prize as well as the Emerging Track awards (if applicable) and any sponsor challenges (learn more here) that you entered.

Judging Round 3: 1:00pm - 2:00pm EST

Round 3 of judging will feature the top 8 projects contending for the HackGT 8 Overall Prize. If you are selected for Round 3 (we'll DM you on Discord, and you'll be included in a public announcement), you will participate in a live-judging panel in which your team will answer questions presented by a panel of approximately five high-profile judges.

# More Questions?

Send a message in the piazza before and during the event, and a HackGT Team member will help you out.

Check out 2021.hack.gt for more information about the event, or contact us at hello@hexlabs.org!

Thank you again to our amazing sponsors and participants, and we can't wait to see you all at the event!