



Hacker Resource Tech

Welcome to Lumohacks! This part of the document contains cool, free tech resources for your use in the event. Our sponsors have been kind enough to provide you all with free stuff as well as opportunities to win prizes based on your team performance.

HARDWARE

Major League Hacking (MLH)

Hardware List - <https://drive.google.com/open?id=1SLOLrYUz1A7pZ1Iis291bKLK5brKjy-HcYuJvWKZeOyg>

SFU Computer Science Student Society

Other hardware will be available to be loaned out by the SFU Computer Science Student Society. Hardware list is TBA.

https://drive.google.com/open?id=1aS_AD-jVeZCtK_ywTBVtEa4SEllprFDNspjMSSU1_zRs

Technovus

Other hardware will be available to be loaned out by Technovus student group. Hardware list is TBA.

Hardware APIs

[Arduino IDE](#)

[OculusRift](#)

[Leap Motion](#)

[Intel Edison](#) - Additional link: <https://software.intel.com/en-us/get-started-edison-windows>

[Spark Cores](#)

[Muse Headband](#)

[Estimote Beacon](#)

[Amazon Echo](#)

[Samsung Phone](#)

SOFTWARE

Wolfram Research

Free access to Wolfram | One. For complimentary access to our development platform and the Wolfram API, just click here: <https://account.wolfram.com/redeem/LumohacksBurnabyCSNS2018>

This URL will take you to a sign-in page and prompt you to log in using your Wolfram ID. If you don't already have a Wolfram ID, you'll be prompted to create one using an active email address. Once logged in, you will see in the Downloads section which platforms of the software you have access to, with their accompanying activation keys. Please download the desktop version to your machine, boot up the application and use the associated activation key when prompted. This will grant you full access for 30 days from your activation date.

When you access Wolfram | One in the cloud for the first time, you can create a new notebook or load a pre-made Things to Try live notebook, which is designed to guide you through neat things you can immediately compute in the Wolfram Language.

You can use Wolfram | One to create instant web apps and APIs, or to deploy to mobile. The Wolfram Language is also bundled on the Raspberry Pi, where you can connect directly to hardware, including Arduino etc.

The fastest way to get an API up and running is detailed in the extensive Documentation Center available to you alongside your notebook: simply click the section in the documentation labeled Cloud and Deployment and select Instant APIs to access a handy how-to guide to help get you started.

To view your account details -- including your available Cloud Credits and Cloud storage -- or re-download Wolfram | One, visit the following page: <https://account.wolfram.com/products>

Wolfram | One is the world's first fully integrated cloud-desktop hybrid, integrated computation platform. The core of our technology stack is the Wolfram Language, which builds on three decades of development, and represents a new direction in programming-- that happens to be absolutely ideal for hackathons.

The Wolfram Language is optimized to make it easy to write small amounts of code that do spectacular things. As a language, it has an immense amount of knowledge about the world built into it, allowing for maximum automation.

If you've used Mathematica in school, you already know a lot about the Wolfram Language. But regardless, it's very easy to learn. If you want to get a sense of how quick it is to do interesting things, check out Tweet-a-Program: <https://www.wolfram.com/language/tweet-a-program>

We've put together a general page of resources for hackathon participants:
<https://www.wolfram.com/hackathons>

And there's an online book with exercises:
<https://www.wolfram.com/language/elementary-introduction>

Wolfram Summer Programs has offerings for exceptional teens in high school as well as undergrads through post-docs. These programs are for those interested in programming, computational thinking, machine learning, and innovative tech. Students create and complete a unique project to publish during the program. For more information and to sign up for 2019 registration announcements visit: <http://education.wolfram.com/summer/>

A great way to continue building your Wolfram Language coding skills is to choose a track on the free Wolfram Challenges site: <https://challenges.wolfram.com/>

If you make it to the leaderboard please email me to let me know!

Interested in Wolfram mentorships or internships? Check out our opportunities here:
<https://www.wolfram.com/company/careers>

Good luck, and happy hacking!

Radix (.tech)

Hey there!

Programmers at LumoHacks can get a FREE .tech domain and 1 team will stand the chance to win the .tech Category Prize - \$150 Amazon Voucher! Cool, eh?

Win the \$150 .tech Category prize!

- Feature your cool hackathon project on your free .tech domain name.
- Make sure to make your full .tech domain your official team name and mention the URL while submitting it on Devpost!

Get your FREE .tech Domain Name!

1. Log onto - www.get.tech/startups - and fill your details.
2. Select LumoHacks and enter the secret code - lumohacks.tech - to submit your request.

Once approved, you will receive a coupon code which you can use at checkout on www.get.tech till the last day of the hackathon to get your FREE .tech domain name.

If you have any questions, you can drop us an email - techsquad@get.tech

Software APIs

Popular APIs

- [Instagram](#)
- [Facebook](#)
- [Twitter](#)
- [Foursquare](#)
- [YouTube](#)
- [Google Calendar](#)
- [Spotify](#)

Other APIs

- [Open Gov](#)
- [NationBuilder](#)
- [HP Idol on Demand](#)

Health/Fitness APIs

- [Human](#) – Real-time access to health and medical data
- [Healthtap](#) – Payor, Patient, Doctor
- [Walgreens](#)
- [Apple Health Kit](#)
- [HealthGraph](#) – captures a user's fitness activities and health measurements
- [RunKeeper](#)
- [Nike](#)

Front End Technologies

- [Anscas](#)
- [Appcelerator](#)
- [PhoneGap](#)