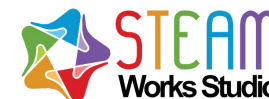





# SUMMER CAMP 2020



BEFORE (\$75/Week) from 8:00AM  
AFTER CARE (\$100/Week) till 6:00PM  
LUNCH - \$50/Week

## Grade PreK-KG

		June 29-July 3	July 6-10	July 13-17	July 20-24	July 27-31	Aug 3-7	Aug 10-14	Aug 17-21	Aug 24-28
9-12p Morning Session		Party in the USA 	Going Green 	Super Science 	Dinomite! 	Amazing Animals 	Creepy Crawlers 	Little Doctors 	Space is the Place 	Little Artists 
		Celebrate the birth of our country with a Party in the USA! This week we'll be crafting a number of patriotic projects. From paper LED fireworks to cool chemistry experiments, campers are sure to have fun both celebrating and learning about our nation's history!	Going Green teaches children to love and respect the Earth and all she provides. In this camp we will learn about the environment, sustainability, and threats to our planet. Campers will delight in making their own bird feeders and creating toys out of recycled materials! Sustainability is the future!	A hands-on science camp for kids to gain experience and knowledge through experimentation! Conduct experiments with food coloring, baking soda, and other safe ingredients. Make your own oobleck! Learn about light and lasers! And have a blast with elephant toothpaste!	Obsessed with dinos? Sign-up for this dinomite camp where we will learn all about dinosaurs, how they evolved, where they roamed, what they ate, and why they're now extinct. Participate in an excavation to uncover mysterious fossils and build your own dinosaur out of laser-cut parts!	Discover the wonders of animal life in our Animal Planet camp! Campers will work on a number of animal themed projects from a variety of mediums including electronics, clay, canvas, and more! Learn to make a butterfly that can actually fly and a lightning bug that really lights up!	Spend the week learning all about creepy crawlers! Build roboslugs and learn circuitry through LED fireflies! Have fun crafting motorized bristle bugs and untangle yourself from a giant spider's web. Plus, get up close with ants and monarch butterflies!	Little Doctors camp presents medicine, science, and the importance of health & hygiene in an entertaining & fun way! Role play with tools doctors use in the real world to learn about the body and how it works. This camp is surely going to inspire our little doctors of tomorrow!	Space is the Place! Learn all about the wonders and mysteries of what lies beyond Earth. Study planets, black holes, stars, and discuss whether alien life is possible. Campers will complete many fun and engaging STEAM projects including LED star circuitry and a robotic Mars rovers!	Get creative in this hands-on Little Artists camp! Everyday campers will refine their motor skills while learning color chemistry and a little art history too! They're sure to create beautiful and unique works of art to be cherished in years to come.
<b>LUNCH (12-1p) + Outdoor Blast (Soccer, Frisbee, Volley Ball, Stretches &amp; Physical Activities!)</b>										
1-4p Afternoon Session		Little Doctors 	Fly High 	Pirates Ahoy! 	Little Artists 	Going Green 	Music & Art 	Under the Sea 	Super Science 	Dinomite! 
		Little Doctors camp presents medicine, science, and the importance of health & hygiene in an entertaining & fun way! Role play with tools doctors use in the real world to learn about the body and how it works. This camp is surely going to inspire our little doctors of tomorrow!	From helicopters to rockets, planes to hot air balloons, learn all about flight and flying machines in this Fly High camp! Make spinning, light-up "helicopters" and a motorized airplane! Plus test different ways to inflate a balloon using simple kitchen ingredients.	Yo ho, yo ho, a pirate's life for me! Participate in a variety of exciting STEM activities with a pirate theme! Search for buried treasure, build robotic parrots, craft floating pirate ships, and learn about electricity through glowing paper crafts! Shiver me timbers, it's gonna be a blast!	Get creative in this hands-on Little Artists camp! Everyday campers will refine their motor skills while learning color chemistry and a little art history too! They're sure to create beautiful and unique works of art to be cherished in years to come.	Going Green teaches children to love and respect the Earth and all she provides. In this camp we will learn about the environment, sustainability, and threats to our planet. Campers will delight in making their own bird feeders and creating toys out of recycled materials!	Sing your heart out at Music & Art camp! This week campers will learn about music and get hands on experience playing different instruments including the keyboard, ukulele, maracas, and more! They will also participate in a variety of fun, colorful art projects.	This week, learn about life under the sea! Campers will have fun studying different sea creatures through a variety of STEM activities. Build and program a robotic dolphin, create a glowing LED angler fish, and experiment with oil and water to learn how marine mammals stay warm.	A hands-on science camp for kids to gain experience and knowledge through experimentation! Conduct experiments with food coloring, baking soda, and other safe ingredients. Make your own oobleck! Learn about light and lasers! And have a blast with elephant toothpaste!	Obsessed with dinos? Sign-up for this dinomite camp where we will learn all about dinosaurs, how they evolved, where they roamed, what they ate, and why they're now extinct. Participate in an excavation to uncover mysterious fossils and build an eruptive volcano!

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# SUMMER CAMP 2020



## Grade 1-2










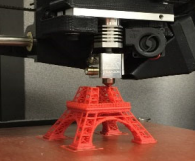



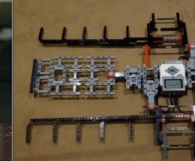


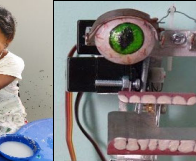

		June 29-Aug 3	July 6-10	July 13-17	July 20-24	July 27-31	Aug 3-7	Aug 10-14	Aug 17-21	Aug 24-28
<b>9-12p Morning Session</b>		<b>Director's Cut</b>	<b>Crazy Chemistry</b>	<b>Star Wars: Droids</b>	<b>Pottery</b>	<b>Flight</b>	<b>Mythical Creatures</b>	<b>I am an Architect</b>	<b>Wizardry 101</b>	<b>Bio-Bits</b>
		Lights, camera, action! Campers call all the shots. Using Stop Motion Animation they will create their own movie masterpiece! From crafting clay characters, LEGO mini figures to painted backdrops, from editing to story boarding & script writing, these budding Spielbergs will learn all there is about movie making.	Embrace your inner mad scientist at our Crazy Chemistry camp! Conduct zany, safe experiments to learn all about elements, chemical properties, and reactions! Like the combination of baking soda and vinegar, exothermic icecream, looking at the composition of air, invisible ink and color changing potions!	Learn to build and program LEGO droids and spacecrafts in this Star Wars themed camp! Use motors, sensors, pulleys, and gears to create roving robots that respond to your command. Plus build a battery operated mini lightsaber! This camp is sure to get kids thinking about technology that is out of this world!	Get your hands dirty at Pottery camp! Learn how to throw clay on a wheel to make bowls, mugs, vases, and more! Craft figurines and make holiday ornaments. Have fun learning to paint, glaze, and fire pieces you get to take home at the end of the week! Highly creative camp that teaches a variety of art and social skills!	Learn about flight and rocketry in this exciting camp! Build and program robotic helicopters and race balloon powered flying machines! Craft parachutes out of various materials to safely land egg babies, build a motorized plane, and more! Be prepared to launch alcohol powered & real rocket engines. The sky's the limit in this camp!	Learn all about dragons, phoenixes, gryffins, and more in our Mythical Creatures camp! Participate in a variety of STEM activities including projects using simple electronics components, building and programming a robotic basilisk, concocting unicorn slime, sculpting dragon teeth, and coding a fun mermaid game. Be sure to sign-up! It's going to be legendary!	Learn to build castles, bridges, and towers in this exciting architecture camp! Throughout the week campers will learn about famous architectural structures including the Eiffel Tower, Empire State Building, and the Shard, among many others! Build different types of bridges & structures. Understand why? Build using our real mini brick and mortar kits!	Expecto Patronum! Expecto have fun in Wizardry 101! Here campers will engage in potions (chemistry) and wand making and DIY laser LEDs (circuitry) among many other fun STEM activities! Sculpt ceramic owls and program fun Wizardry themed SCRATCH animation and games! You cant miss the most magical week of summer!	Explore the wonders of life on a microscopic level! Throughout the week we'll be learning about plant and animal cells, learning to use and then looking at many actual samples under a microscope, and performing several awesome experiments including growing bacteria and extracting DNA! This camp is highly recommended for curious minds!
<b>LUNCH (12-1p) + Outdoor Blast (Soccer, Frisbee, Volley Ball, Stretches &amp; Physical Activities!)</b>										
<b>1-4p Afternoon Session</b>		<b>The Jungle Book</b>	<b>SILLY Circuits!</b>	<b>Ecology</b>	<b>Trucks &amp; Transpo</b>	<b>Shark Week</b>	<b>SCRATCH-O-BOTS</b>	<b>Arcade Games</b>	<b>Dino Bots</b>	<b>Funky Physics</b>
	A Robotics program with a Jungle book theme! Think Mowgli™ and his animal friends! Monkey around using motors, gears, pulleys, and sensors to create fun jungle themed missions! Each Robotic model teaches a unique new programming, sensor or motor control concept as well as surprising educational facts about the animals!	Students create their own playdough and use it along with little coin cell batteries to make "squishy" circuits with LED lights, buzzers, motors to make their projects to come to life! They will also use Paper and crafting skills to make light up cards or Painted Canvas that light up. A great foundation for students to learn basic hands-on electronics!	Explore the relationship between all living things! Campers will delight in caring for their very own aquarium! They'll also create a take home terrarium through which they'll learn about the carbon and nitrogen cycles. This camp is perfect for animal lovers and those interested in the magical harmony of world around them!	Beep beep! Love moving machines? Sign up for trucks & transpo where campers will learn more and build trucks, trains, aeroplanes, helicopters, motorcycles using LEGO™ blocks, motors and sensors! Build and program a robot among other fun STEAM activities! Great way for students to engage in design, engg. & creative problem solving!	Learn all about the ocean's top predator in our Shark Week camp! From hammerheads to great whites we will learn about shark behavior and why these fearsome creatures may be misunderstood. Participate in a number of projects including a game of Dash &Dot's Sharks and Minnows and learn to build and code a roboshark!	This incredible and unique Camp teaches children easy to use drag and drop step-by-step instructions (code) using the famous SCRATCH language to control LEGO™ Cranes, Animals, sensors and motors to create fun projects! This highly engaging program is sure to be one of their favorite camp weeks ever! Control your airplane in the virtual world with LEGO control stick!	Learn to code and customize fun classic arcade games such a pong, target practice, tag, and more! Using SCRATCH by MIT, campers will learn how to add sprites, backdrops, sounds, and so much more. This engaging gameified program encourages kids to think creatively and reason systematically. Get kids to code!	Obsessed with dinos? Sign-up for our Dino Bot camp and learn to build and program velociraptors, triceratops, pterodactyls and more! Students learn interesting facts about the life and era of a time past while learning engineering, art and technology. Try circuitry and learn to code using SCRATCH animation! This camp is sure to be dinomite!!	Learn about light, optics, and illusions in this Funky Physics camp! Create your own periscope and kaleidoscope out of simple materials and use teamwork to complete engineering challenges that defy gravity! This camp puts the FUN in Funky Physics. What do magnets do? Where can they be used. Can you make your own fun little Motor?	

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# SUMMER CAMP 2020

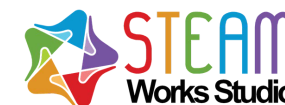


## Grade 3-5

		June 29-July 3	July 6-10	July 13-17	July 20-24	July 27-31	Aug 3-7	Aug 10-14	Aug 17-21	Aug 24-28		
<b>9-12p Morning Session</b>	<b>Crazy Contraptions</b>	<b>Stop Motion</b>	<b>Drone Coders</b>	<b>Python &amp; Art</b>	<b>Soldering 101</b>	<b>Pre-Med</b>	<b>Elements</b>	<b>Puppetry</b>	<b>Mission Impossible</b>			
												
	Learn about engineering through the construction of crazy contraptions! Use simple materials to create a moving machine! For instance, a marble maze or a spinning dancer! Crazy Contraptions promotes systematic reasoning and creative thinking!	Lights, camera, action! In Stop Motion camp, you call the shots! Learn how to use stop motion software, frames per second, sculpt clay characters, and storyboard your mini movie in this awesome and creative course. Crafting clay characters, LEGO mini figures to painted backdrops, story boarding & scripts!	Practice programming using a drone as a platform! Coding is done using Blockly (for beginners) or Python (for students with some experience). Execute pin-point turns, loops, camera control, gyro turns. Take part in missions like going to an exact place & knocking down pins!	Learn this elegant, powerful & relevant programming languages of today to create mesmerizing mandalas, colorful animations, and even games in this Python Art camp! Python Art serves as an introduction to the programming language of Python. Let's get kids coding!	Learn how to solder in this introductory camp. Create unique sculptures and understand simple electronic components and circuit reading to construct simple electronics projects ex. Water alarm system, DIY laser, a little piano. A great way to get kids interested in the world of electronics!	Interested in health, medicine, and the human body? Sign-up for our Pre-Med camp! Practice diagnosing patients and look at your very own cells from underneath a microscope! Collect bacteria and grow it in a petri dish. Learn how to sew stitches and 3D print a model of the heart.	Master the elements in this brand new camp! Throughout the week we will learn all about the elements on the periodic table through a series of experiments. Play with gallium; a metal that melts in your hand! And learn to create a carbon snake! Make your own Hydrogen and Oxygen gases. What happens to pure Sodium in water?	Puppetry is exercise for your imagination! Learn to make professional puppets in our Puppetry class! Follow a pre-made pattern, choose from a variety of colorful fabrics, and learn to sew in this awesome creative course! Kids will learn how to design, construct, and manipulate puppet characters!	Do you have what it takes to be a spy? Learn about spy history and technologies in Mission Impossible camp! Campers will build real DIY lasers to use in a laser maze, as well as solder together an intruder alert system and make a tiny transmitter to hear conversations!			
	<b>LUNCH (12-1p) + Outdoor Blast (Soccer, Frisbee, Volley Ball, Stretches &amp; Physical Activities!)</b>											
	<b>1-4p Afternoon Session</b>	<b>3D Printing &amp; CAD</b>	<b>Med Bots</b>	<b>Masterpiece Art</b>	<b>Rocketry</b>	<b>Home Bots</b>	<b>Wearable Tech</b>	<b>Pottery</b>	<b>Animatronics</b>	<b>Food Tech</b>		
												
		Learn the art of 3D printing and Computer Aided Design! Using SketchUp as a platform, campers will create a series of fun, custom objects they'll get to take home at the end of camp! Print chess pieces, action figures, houses, and more! If you can dream it, you can print it!	Build robots that can change and save lives! Learn to create a prosthetic arm, program a medicine dispensing bot, even craft a robot to build an artificial bone! How can you use Robots for people who cannot walk or lift themselves. Have fun and learn invaluable skills at Med Bot camp!	Study the styles and techniques of world famous artists such as Van Gogh, Degas, and Da Vinci. Learn from the masters and enhance your own artistic skills through a variety of mediums! Learn techniques from a real in-house professional Artist with years of experience!	3, 2, 1, lift off! This camp is all about rocketry! Learn about different types of rockets, then build your own using safe household ingredients and materials. Learn about the design process, several types of launch mechanisms and rocket chemistry. Sign up now, it's gonna be a blast!	Kick back and relax while robots do the work for you! Learn to build robots that will fold your clothes, feed your pets, sweep and collect lego parts, and even alert you to intruders! This camp is sure to enhance students' engineering and programming skills! Creative Problem solving!	Make a fashion statement with electronics you can wear! Spend the week soldering, programming, and designing pendants, earrings, and wristlets that change color and flash at your command! Leave with projects that will WOW your friends and family.	Get your hands dirty at Pottery camp! Learn how to throw clay on a wheel to make bowls, mugs, vases, and more! Craft figurines and make holiday ornaments. Have fun learning to paint, glaze, and fire pieces you get to take home at the end of the week! Highly creative camp that teaches a variety of art, team work and other social skillsets!	Animatronics is the use of cable-pulled devices or actuators to animate life like a replica of a human or an animal. This fun class is inspired from the previous puppetry class but take it to the next level with electronics and where required computing. Make animatronics that will make your puppets come to life!	Cooking up something incredible in this Food Tech camp! Throughout the week campers will create stunning delicious works of art using various cooking techniques including digital fabrication. Laser cut an intricate pattern on Nori seaweed sheets and make 3D printed chocolate molds!		

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# SUMMER CAMP 2020



Grade 6-8

9-12p Morning Session	June 29-July 3	July 6-10	July 13-17	July 20-24	July 27-31	Aug 3-7	Aug 10-14	Aug 17-21	Aug 24-28
	Python Workshop	Wearable Tech	VEX Robotics	Limitless COSPLAY	Lasercut DIY Computer	Digital Art Studio	VR & Game Design	Bio-Hacking	Spy Gear Electronics
	Python is a powerful, expressive programming language that's easy to learn and fun to use. We build cool Graphics & Games during the course. We use IDLE as a development tool as well as common Libraries that help with Graphics and Game building like tinkper and pygame to explore the power of Python language!	What if your clothing could change color based on mood or respond to your racing heartbeat? Welcome to the world of shoes that can dynamically shift your height, jackets that display when the next bus is coming, and neckties that can nudge your project partner across the room. Build your own Wearable!	Build a fully autonomous competition level robot using the latest VEX ARM® Cortex®. Students will learn hands-on engineering skills as well as programming skills such as Robot-C. At the end of the week, students will participate in a friendly competition against their fellow campers.	Costume play, is a performance art in which participants called cosplayers wear costumes and fashion accessories to represent a specific character ex. Star Wars. Making your own cosplay is challenging but incredibly satisfying. Use really interesting materials to create amazing costumes that light up or create effects!	In this super exciting hands-on camp make your own custom laser cut PC while learning about Computer organization, CPU, RAM, Linux, Audio, Video, Webcam, Wireless integration. Design thinking & Laser Cutting skills building allow students to completely customize their own take home PC. Parts fee of \$60	A soups to nuts camp covering Photography, Digital Art Work on tablets, tools such as Adobe Animate, Photoshop, and production process for Video and Audio. You Tube, Instagram and Websites! Create your own themes and work on them with expert guidance from our Digital Arts specialists.	Create your own virtual world using Unity, a professional game building app. From islands to deserts, mountains to farmland, create realistic 3D scenes! Even add wind and music. Plus try your hand at character design! Add to it interactions programmed to work in a Virtual Reality setting with Oculus making a VR game.	Learn about field of Synthetic Biology, Genetics and how DNA editing is such a powerful topic of today in this biology intensive course! Campers will use a hands-on kit to grow a SAFE strain of bacteria on resistance agar plates! Learn about CRISPR Cas9 technique and how to cut and edit DNA by an actual application!	Build your own electronic circuitry using simple electronic components and IC's! Spyware for amplifying faraway conversation, transmitter radio, long distance conversations using optics, burglar alarms, WIFI security cameras in a matchbox! Build at your own pace with our experts in Electronics making & tinkering!

## LUNCH (12-1p) + Outdoor Blast (Soccer, Frisbee, Volley Ball, Stretches & Physical Activities!)


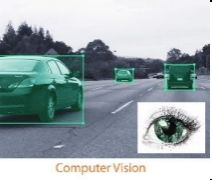

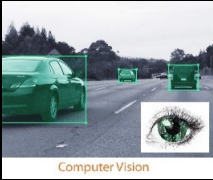



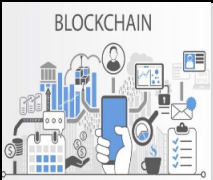
1-4p Afternoon Session	Wonder World of IoT	Core JAVA	Digital Jam Band	Green Tech	BLENDER 3D	Drone Workshop	Solar Go Karts?	Wood Workshop	JavaScript/AI Games
	Make IoT Applications like switching on/off an LED from your phone, or via webpage, a home security camera on your mobile phone triggered by motion! Long duration Temp & Humidity monitor connected to the internet. Learn coding with Python while exploring electronics Maybe your idea can be the next cool startup!	A Jumpstart to Coding! Begin with a quick programming orientation using the Eclipse environment. Campers will learn to program using best practices and understand what makes JAVA unique and so powerful. JVM, Objects & Classes, Data Types, Arrays, Decision Structures, File I/O & Graphics are introduced!	Craft your own tunes in this fresh new camp offering! Learn how to edit sounds, mix sounds on multiple tracks into songs. This camp is a must for students passionate about music, math & mixing. Create your own custom beats and polish them to studio-level quality. Unleash your inner music composer!	Campers will get a great introduction to Green sustainable technologies by building a Simple Solar Charging Station for mobile phones or other devices, an amazing Solar powered Flashlight, a zero cost working Solar Water Pump, Solar powered bag packs and a Wind Turbine design! Campers will absolutely love this useful camp!	Blender is a free and open source 3D creation suite. It supports the entirety of the 3D pipeline — modeling, rigging, animation, simulation, rendering, compositing & motion tracking. Thanks to high quality rigging and animation tools, Blender is used for numerous short films, ads, TV series and feature films now.	This camp is for MAKERS interested in building their own Camera equipped FPV Drone from scratch. Design thinking, assembly, craftsmanship, motors, electronic speed controllers, RC control. As part of the design process learn 3D Printing & Laser Cutting where required. What can you think of a great eco-friendly drone application?	This is the real deal! Can you & your fellow campers design/create a real DIY Electric battery powered Car? Learn design and engineering skills, wood working, electronics, assembling and much more to make this custom designed vehicle that you can sit and steer, break, move forward and backwards! Bonus add a Solar Roof!	Make your own cool wooden creations ex. Step stool or TV stand in this awesome course where campers will learn life long skills! Cut, assemble, screw, hammer, nail, and stain a piece you'll use for years to come. Learn safety rules first, use safe wear, then use a combination of jigsaw, lathe, drill press, & sander.	Websites world wide utilize a versatile and easy to learn language called JavaScript. Learn coding in JavaScript, HTML5 and CSS to build cool interactive graphical games with interactivity. AI adds intelligence such as the computer playing a Tic-Tac-Toe game against you! Incorporate AI to take your game to the next level!

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# SUMMER CAMP 2020



## Grade 9-12

		June 29-July 3	July 6-10	July 13-17	July 20-24	July 27-31	Aug 3-7	Aug 10-14	Aug 17-21	Aug 24-28
<b>9-12p Morning Session</b>			<b>Cybersecurity Lab</b>		<b>Data Science, ML &amp; AI</b>		<b>Financial Literacy</b>		<b>Computer Vision</b>	
	No Camp		No Camp		No Camp		No Camp		No Camp	
No Camp	How hackable are you? Can 2 step verification be hacked? How are passwords hacked? What is a Trojan Horse attack? How do hackers hack phones? How about IP addresses? Each day in the camp is real examples that you will do step-by-step in a secure lab to learn how to protect your phone, online and computer security!	No Camp	Learn about data science & machine learning by making end-to-end actual projects that cover steps from loading, cleansing data, summarizing data, evaluating algorithms and making predictions. Python libraries like scipy, numpy, sklearn, matplotlib, pandas, linear regression & ensemble methods, practical Computer Vision!	No Camp	An essential subject for the middle schoolers of today. Explore topics like: Wants vs needs, making a Budget, history, money facts, fraud & smart shopping, Banking & Saving for college, joining the workforce, taxes, entrepreneurship & growing a Business, Stocks & Bonds, Simulated Portfolio, growing your Money.	No Camp	Computer vision powers applications like image search, robot navigation, medical image analysis, photo management and many more. Camp is an entry point to hands-on computer vision with enough understanding of the underlying theory and algorithms to be a foundation for students. Python & OpenCV is used	No Camp		
<b>LUNCH (12-1p) + Outdoor Blast (Soccer, Frisbee, Volley Ball, Stretches &amp; Physical Activities!)</b>										
<b>1-4p Afternoon Session</b>			<b>Kinetic Sculptures</b>		<b>ADVANCED JAVA</b>		<b>Digital Jam Band</b>		<b>Crypto &amp; Blockchain</b>	
	No Camp		No Camp		No Camp		No Camp		No Camp	
No Camp	Can you make your own Kinetic Sculptures that move by themselves and create beautiful art for your walls? Design one from end to end using the tools and techniques that our teachers can provide. Our tools and guidance, your idea and you get to keep it! Produce a marvelous piece of art for yourself!	No Camp	Learning advanced Java by doing actual projects like making a Java Server and networking using a simple chat application, Java Sound API to capture audio data from a microphone, intro to Databases and JDBC access, Plotting 3D Surfaces using Java, Combining Rotation and Translation in Java 3D! Basic Java required.	No Camp	Craft your own tunes in this fresh new camp offering! Learn how to code and edit sounds, mix sounds on multiple tracks into songs. This camp is a must for students passionate about music, math & programming. Create your own custom beats and polish them to studio-level quality. Unleash your inner music composer!	No Camp	What is the technology behind the world of Cryptocurrency which is fast becoming a global phenomenon? Learn and actually make (code) live applications using Blockchain the very disruptive technology that is changing the landscape of many fields like finance, food quality and supply chain, identity management and more!	No Camp		

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