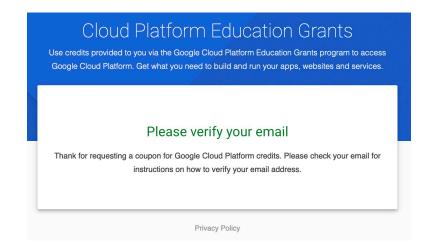
Use the link sent from Dr Ward, for signing up for Google Cloud Platform Education Grants Credits. By clicking on this link, you go to a webpage in which you type your First Name, Last Name, and Purdue Career Account Name (without including "@purdue.edu")

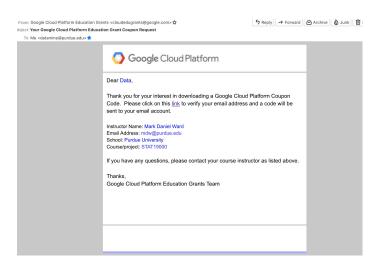
	a the Google Cloud Platform Education Grants program to ac vhat you need to build and run your apps, websites and servi
	in Google Cloud Platform Education Grants. Please fill out the
form below to receive a cou	pon code for credit to use on Google Cloud Platform.
First Name	Last Name
School Email	
	@purdue.edu
If you do not see your domain list	ed, please contact your course instructor: mdw@purdue.edu
	gree that we may share the following information with your educational mdw@purdue.edu): (1) personal information that you provide to us on this
institution and course instructor (_	g your use of the coupon and Google Cloud Platform products.

Privacy Policy

Then you will get a screen that says "Please Verify Your Email":



When you open your email, the email verification you will receive looks like this:



Click on the link in this email verification. This opens a webpage says that email has been verified and a Google Cloud Platform coupon code has been sent to your email address.

Cloud Platform Education Grants Use credits provided to you via the Google Cloud Platform Education Grants program to access Google Cloud Platform. Get what you need to build and run your apps, websites and services.
Email Verified
Your email has been verified and your Google Cloud Platform coupon code has been sent to your email address.
Privacy Policy

That email will look like this:

From Google Cloud Platform Education Gr Subject Your Google Cloud Platform Educa To Me <datamine@purdue.edu> 🛊</datamine@purdue.edu>		S Reply → Forward	Archive 👌 Junk	Delete Delete
	O Google Cloud Platform			
	Dear Data,			
	Here is your Google Cloud Platform Coupon Code: 05A BGD2	1-4RKU-X6F0-		
	Click [here] to redeem.			
	Course/Project Information Instructor Name: Mark Daniel Ward Email Address: mdw@purdue.edu School: Purdue University Course/project: STAT19000 Activation Date: 8/1/2019 Redeem By: 12/1/2019 Coupon Vaid Through: 8/1/2020 If you have any questions, please contact your course in above. Thanks, Google Cloud Platform Education Grants Team	structor as listed		

You click on the link in the email to redeem the code. This takes you to a webpage that enables you to accept \$50.00 in Education grants for making maps using the Google API. The page looks like this. You need to click the "Accept and continue" button:

	oud Platform	
Education grants		
Education Grants prog	n code provided to you via tl am to receive credit for Goo un your apps, websites and s	gle Cloud Platform. Get what
Coupon code		
05A1-4RKU-X6F0-BGI	02	
Credit amount	Expiration date	Course
\$50.00	Jul 31, 2020	STAT19000
Terms of Service		
Country of residence		
United States		
Google Cloud Platform o	ducation grants credits terms	and conditions
, , ,	l continue" below, you, on be sent ("You") agree to these to	
The credit is valid for G	oogle Cloud Platform produ	cts and is subject to Your

The credit is valid for Google Cloud Platform products and is subject to Your acceptance of the applicable Google Cloud Platform License Agreement and any other applicable terms of service. The credit is non-transferable and may not be sold or bartered. Unused credit expires on the date indicated on the media conveying the promotion code. The credit may be issued in increments as You use the credit over the period of time during which the credit is valid. Offer void where prohibited by law.

You represent that you are accepting the promotional credit on behalf of your educational institution and the credit can only be used on behalf of the educational entity and not for your personal use. You represent, on behalf of such educational entity, that (i) You are authorized to accept this credit; (ii) the credit is consistent with all applicable laws and regulations, including relevant ethics rules and laws; and (iii) the provision of credits will not negatively impact Google's current or future ability to do business with such educational entity.

You agree that we may share the following information with your educational institution and course instructor: (1) personal information that you provide to us during the coupon redemption process and (2) information regarding your use of the coupon and Google Cloud Platform products.

Accept and continue Clear

The webpage should refresh and say "Creating project. This may take a few moments."



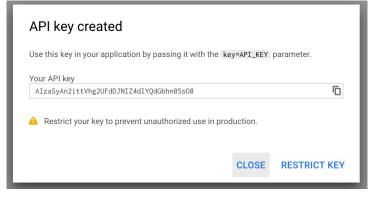
A Home 🖄 Marketplace Billing TOUR CONSOLE RPI APIs & Se * Support Library Top Products Credentials IAM & admin OAuth consent scree ۲ ---۲ . . ۲ Getting star Domain verification Cloud SQL A fully-mana MySQL/Post service Compute Engine Cloud Storage App Engine Security A powerful, simple A platfor ild web and n CON Compute Engine Explore Kubernetes Engin (···) Cloud Functions APT 0 80) Cloud Run Google APIs Create an empty project STORAGE Marketplace Explore, launch, and manage solutions in just a few clicks Bigtable 522 Datastore S Firestore Interactive tutorials Filestore ۲ ۲ . ف Build a guestbook Kubernetes Engine Learn to use Cloud Storage Try Compute Engine Try App Engine Storage Create a storage bucket and add a file. Create a Linux 8 SQL Deploy a Guestbook 🙏 Spanne Memor NETWORKING VPC network Engag Handy Links A Network service

When the page is finished loading, many options for the Google Cloud Platform should open.

In the left-hand sidebar, you should choose "APIs & Services" and then "Credentials" from the small menu that opens. A new page will open, for APIs Credentials, and you press the button to "Create credentials" and then choose "API key" from the dropdown menu that appears.

u: A	ou need credentials to access APIs. Enable the APIs you plan to se and then create the credentials they require. Depending on the PI, you need an API key, a service account, or an OAuth 2.0 client D. For more information, see the authentication documentation.
	Create credentials 🔻
	API key Identifies your project using a simple API key to check quota and acce
	OAuth client ID Requests user consent so your app can access the user's data
	Service account key Enables server-to-server, app-level authentication using robot account

A new window should open that says "API key created".



It is safe to click the "close" button. There is a little double-window picture frame shape that is immediately to the right of the long API key. This allows us to copy and paste the key somewhere that you will remember it, for later use. (*Please do not type this API key by hand. It is good to copy-and-paste, and to doing things in a reproducible, accurate way.*)

Now we want to click on the "Library" option under in the left-hand APIs & Services sidebar. This should open the API Library.

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API Library	Welcome to the API Lib		L'.			P	•
-	Q Bearch for APIs & Services			•	•		2
Filter by	Maps					VIEW ALL (15)	
risiaalutty hublic (241) hivute (2)	App SDK for Android Google	Aspa SDK for IOS Geogle	Maps JavaScript API Google	Places API Google	Coople	2 Directions API Geogle	
ATEGORY dvertising (11) nalytics (1) ig data (11)	Maps for your native Android app.	Maps for your native IOS app.	Maps for your website	Get detailed information about 100 million places	Snap-to-road functionality to acountiely trace GPS breadonumbs.	Directions between multiple locations.	
og & CMS (1)	Machine learning						VIEW A
ompute (6) RM (1) wohoper stacks (2) eveloper tools (13) mail (1) irebase (4) ioogle Cloud APIs (24)	Dialogflow API Google Builds conversational interfaces	Cicud Vision API Google Image Content Analysis	Cloud Natural Language API Gospie Provides natural language understanding technologies, such as seräment analysis, estity	Cloud Speech to Text API Geogle Speech recognition	Cloud Translation API Google Integrates text translation into your website or application.	Cload Machine Learning Engine Boogle An API to enable creating and using machine learning models.	Cloud Video Intelligence API Google Detects objects, esplicit content, and scome changes in videos. It also specifies the region for.
Suite (19) achine learning (8)	G Suite						VIEW AL
laps (15) lobile (12) lonitoring (4) etworking (5) ecurity (4) ocial (4)	Google Drive API Google The Google Drive API allows clients to access resources from Google	Google Calendar API Google Integrate with Google Calendar using the Calendar API.	Gmail API Google Piewbile, RESTfull access to the user's those	Google Sheets API Google The Sheets API gives you full control over the context and	G Suite Marketplace SDK Google A sociations with G Suite	Admin SDK Googie Admin SDK lets administrators of enterprise domains to view and	CalDAY API Google The CalDAY API lets you manage your Google calledars and events

In the left-hand sidebar, choose the "Maps" option.

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Maps	Q Search for A	PIs & Services					
lter by	15 results						
ATEGORY	*	•				#	
aps ©	Directions API Google	Distance Matrix API Google	Geocoding API Google	Geolocation API Geogle	Maps Elevation API Google	Maps Embed API Google	Maps JavaScript API Geogle
	Directions between multiple locations.	Travel time and distance for multiple destinations.	Convert between addresses and geographic coordinates.	Location data from cell towers and WIFi nodes.	Elevation data for any point in the world.	Make places easily discoverable with interactive Google Maps.	Maps for your website
	-		•		-	2	•
	Maps SDK for Android Google	Maps SDK for iOS Google	Maps Static API Google	Places API Google	Roads API Google	Street View Publish API Google	Street View Static API Google
	Maps for your native Android app.	Maps for your native IOS app.	Simple, embeddable map image with minimal code.	Get detailed information about 100 million places	Snap-to-road functionality to accurately trace GPS breadcrumbs.	Publishes 360 photos to Google Maps, along with position, orientation, and connectivity	Real-world imagery and panoramas.
	e						
	Time Zone API Google						
	Time zone data for anywhere in the world.						

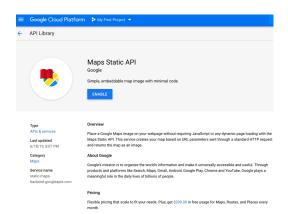
Click on the Geocoding API, and then click Enable.

=	Google Cloud Platform	S• My First Project 👻
←	API Library	
	?	Geocoding API Gogle Convert between addresses and geographic coordinates.
	Type APIs & services Last updated 6/18/19, 8:07 PM Category Maps Service name geocoding- backend googleapis.com	Overview Covert addresses into geographic coordinates (geocoding), which you can use to place markers or position the main. This API also allows you to convert geographic coordinates into an address (reverse peocoding). About Google Googlet mission to organize the world's information and make it universally accessable and useful. Through products and platforms like Search. Maps, Gmall, Android, Google Pay, Chrome and YouTube, Google plays a mainingful role in the daily lives of billions of propile. Pricina
		- Flexible pricing that scale to fit your needs, Plus, get \$200.00 in free usage for Maps, Routes, and Places every

After you clicked the Enable button, click the 3 lines at the upper-left corner. This causes a drop-down menu to appear, and you choose APIs & Services, and then Library.

=	Google Cloud Platfo	rm	My First Project
♠	Home		Geocoding API DISABLE
Ŧ	Pins appear here 🔞	×	etrics Quotas Credentials
¥	Marketplace		VII API versions ▼ All API credentials ▼ All API
	Billing		Traffic By response code 💌
API	APIs & Services	>	Dashboard
Ť	Support	>	rage) Library
θ	IAM & admin	>	Credentials OAuth consent screen
۲	Getting started		Domain verification
0	Security	> -	
COMF	PUTE		
-ô-	App Engine	>	Errors By API method 🔻

Then click Maps in the left-hand menu, and finally choose Maps Static API, and click Enable.



Your API key should be ready to use now! Congratulations! You will use this API key for the rest of the semester, so please keep it handy! It is a useful piece of information!