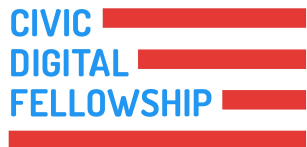# Hack-in-a-Box

National Institutes of Health

Advisor: Allissa Dillman, Ph.D. — Outreach Director, Office of Data Science Strategy

Ruben Cuevas
Stanford University
Computer Science

Motivation

- Hosting a codeathon is a lot of work -- many tools needed to succeed

- Lots of manual labor and time needed to make sure mistakes aren't made in inviting participants

Solution

- A webapp that automates the processes that go into managing and inviting participants to these different platforms

- Simple and time efficient -- all that's required is some authentication and participant information

- Utilizes the APIs from the platforms themselves for security and accuracy

Codeathon Creator

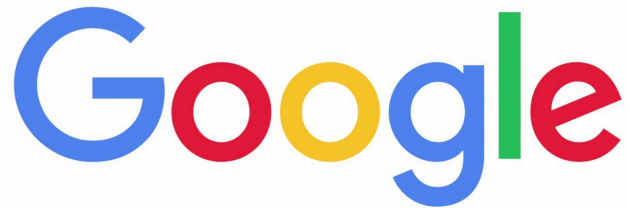**Welcome! Let's start by uploading your CSV and logging into Google.**

Authorize Google

Start With A Spreadsheet

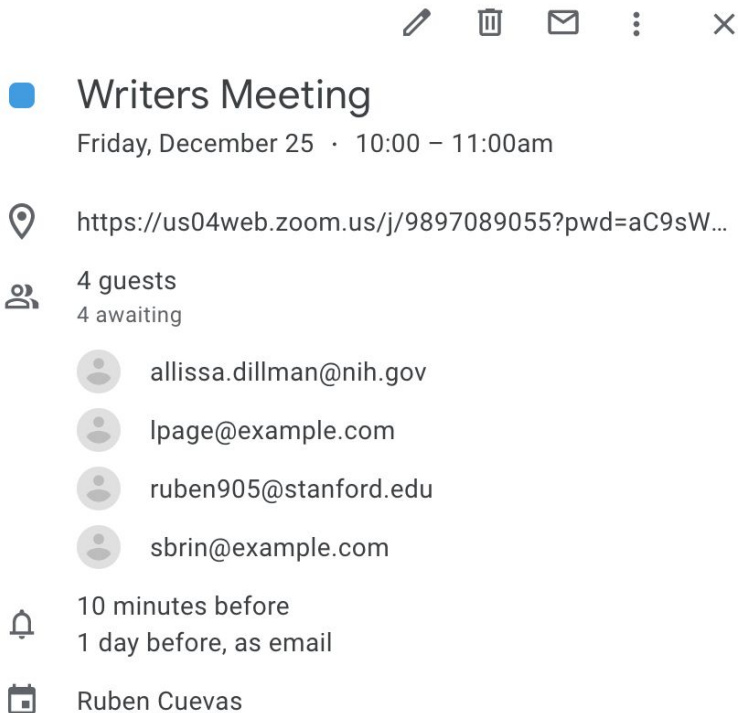| Name	Email	Project	Github Name
Billy	lpage@example.com	Creating Nontechnical Jupiter Notebooks	billygit
Bobby	sbrin@example.com	Analyzing RNA Sequences	bobbygit
Beth	ruben905@stanford.edu	New Awesome Project	bethgit
Allissa	allissa.dillman@nih.gov	Creating Nontechnical Jupiter Notebooks	allissadillman
Ruben	ruben.cuevas@stanford.edu	Analyzing RNA Sequences	rcuevas01

User starts with uploading a CSV file with information about their participants: Name, Email, Project, and Github Username

The Three Key Platforms

Google Calendar

- Codeathons always have meetings, whether it's kickoff, presentations, or guest speakers

- User inputs event names, date, and times straight to the web app, and the Google Calendar API automatically invites all participants to each event

✏️ 🗑️ ✉️ ⋮ ✕

🔵 Writers Meeting

Friday, December 25 · 10:00 – 11:00am

📍 https://us04web.zoom.us/j/9897089055?pwd=aC9sW...
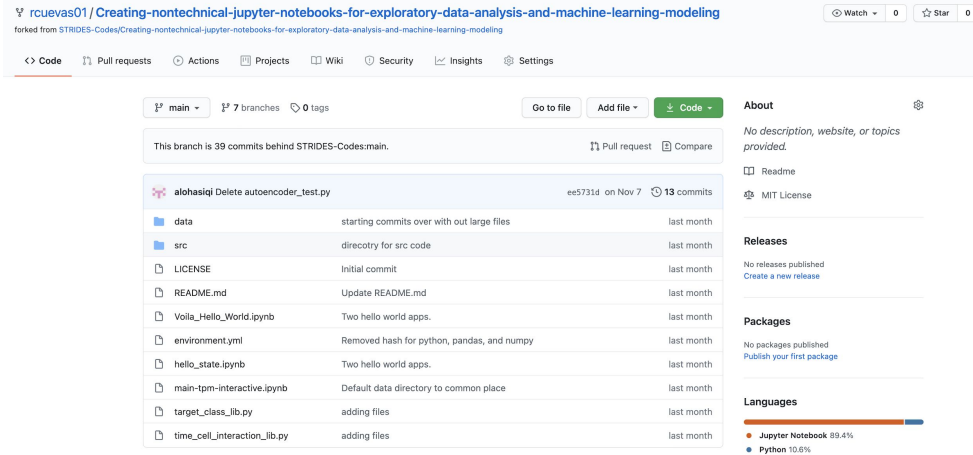
👥 4 guests
4 awaiting

👤 allissa.dillman@nih.gov

👤 lpage@example.com

👤 ruben905@stanford.edu

👤 sbrin@example.com

🔔 10 minutes before
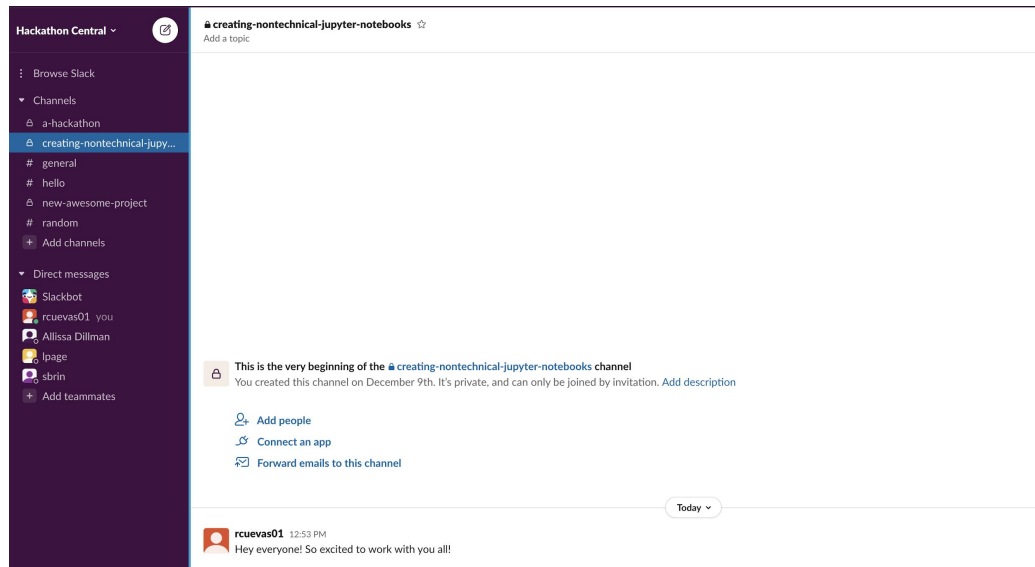1 day before, as email

📅 Ruben Cuevas

Github Repositories

- Allows participants to store and collaborate on code

- Used Github API to create repos for each project, invite all users as collaborators, and add a README file

Slack Workspace

- Fantastic tool for team communication

- Used the Slack API to create channels for each project and invite the corresponding participants

Thank You!

- Special thanks to my mentor, Allissa, as well as the rest of my support network during the fellowship: Jessica, Jackie, Natasha, and Erin

- Thank you to Chris, Rachel, Ariana from Coding It Forward for making this fall fellowship possible