



# Montague – CTE Scholar James Caverlee (2011-12) Computer Science & Engineering



## Sparking a Startup Culture in Aggieland

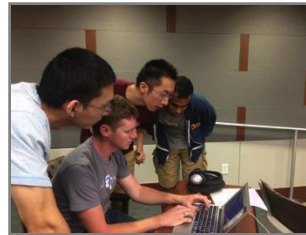
With Montague-CTE Scholar support, we launched the “Coding Gig” hackathon series. A *hackathon* is a loosely-organized programming environment that encourages creativity and collaboration.

Students worked in teams to create demos and prototypes over a rapid-paced 24-36 hour sprint.

2012: Big Data Mining and Analytics

2013: Big Data Visualization

2014: Diversity Open Data (co-sponsored by the Center for the Study of Digital Libraries and the College of Architecture)



Sign Up

Name

Class year: Freshman

Major

Work on big data. Solve problems. Win prizes. Have fun.  
Coding Gig is a hackathon hosted by InfoLab.

**Details**

- Kickoff: 6:00 PM, September 6th, 2013
- Demos & Prizes: 11:00 AM, September 7th, 2013
- Free food on both days!
- Where: 128BB.124
- Team size: at most 3 students
- Prizes:
  - 3 iPad Minis
  - 2 SanDisk 64 GB Solid State Drives
  - 1 Spero Wireless Robotic Ball
  - 2 VeeMo Light Switches
  - 2 Chromecast
  - Lots of Aggie t-shirts
- Theme: Big Data Visualization
- Goals:
  - You will have half a day and a night to build something cool. We will provide data. At the end, you will demo your creation to the other students and we will award prizes to the best projects.

**Resources**

- Sample Code using python and d3.js.
- D3.js is an excellent library which helps you bring data to the using HTML, SVG and CSS.
- Leaflet.js is a lightweight, robust library for interactive maps.
- Others: jQuery, matplotlib (basecamp), Google Maps API

**Coding Gig FAQ**

**What should I bring?**  
You should bring your own laptop. You may bring any reference books that you think will help you. We'll provide food, snacks, and electrical outlets.

**Can I participate?**  
Anyone can participate, but only Texas A&M undergraduate students can win prizes.

**What do I need to know to participate?**  
All the members of a team should be familiar with programming in the same language. You don't have to be an expert in data mining, but the more you know, the better. There will be a special prize for the best team of freshman and sophomores.

**What is the data?**  
Click on the link for a description of the data.

**How do I start?**  
We recommend:

1. Think of a cool problem where you can answer an interesting question from a dataset in the form of a visualization.
2. Choose a dataset from among the datasets provided.
3. Pick a language and the visualization tool/library which you think will be able to help present your idea.

Special thanks to the Montague family and the Center for Teaching and Learning at Texas A&M University. We would also like to thank UC and Jeremy Kelley (though for supporting the hackathon with their contributions.

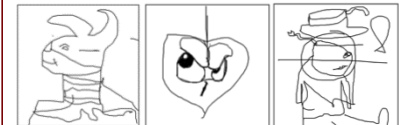
**Tweets**

James Caverlee @TheCodingGig  
Klookin' a few minutes. [View my CodingGig!](#) Find out more here: [infoab.tamu.edu/codinggig/](#) Expand

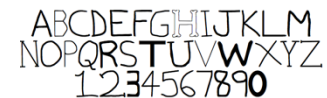
Coding Gig @CodingGig  
On October 13th, @infoab.tamu will host the first CodingGig! Find out more here: [infoab.tamu.edu/codinggig/](#) Expand

## Bringing Cloud Computing into the Classroom

Large-scale computing “in the cloud” is fundamentally transforming how computer scientists tackle emerging challenges in domains that consume and manipulate massive amounts of data. With Montague-CTE Scholar support, we funded student project access to Amazon Web Services to build crowd-sourced and cloud prototypes.



Example: A distributed drawing project where crowds added a single stroke at a time.



Example: A crowd-sourced font created by 100s of Amazon Mechanical Turkers.