Projects:

* **Busses of Austin Rating System (BARS)**: An app that helps Austin commuters rate their travel experience on public transport, helping others to plan their trip as well as creating a dataset for the Austin Metro Department to analyze and determine avenues of growth.
  + Technologies used:
    - Python BeautifulSoup, Pandas: scraping [X MB] of data on Austin bus routes and stops
    - Google Geofences API: Location-based services
    - AndroidStudio
  + Tags: fun, service
* **IBM and Sahana Eden**: Analyzed 10 years of call history from the Thornwood FD (link) to recommend new policies.
  + Tech used:
    - IBM Bluemix: Set up a server to host the Sahana Eden platform.
    - Python BeautifuSoup, Pandas: Scraped and cleaned 10 years of call history.
    - Tableau: Geolocation-based analystics, chi-squared goodness of fit models.
  + Tags: analytics
* FTC Scouting System: Developed a data collection and analysis system to determine alliance partners and track robot design progress.
  + Tech used:
    - Tableau: Visualize robot capabilities to quickly determine optimal alliance partners.
  + Tags: robotics, analytics
* Teamquadx.org: Fully custom website for robotics team that averages 300 visits a month during the season.
  + Tech used:
    - HTML, CSS, and Javascript
    - Materialize: Google’s CSS framework.
  + Tags: robotics
* **SACOT map**: Visualize the current state of funding for each US state and links users to resources to contact their local representative.
  + Tech used:
    - GIS: Project information onto a map of the US.
  + Tags: robotics, service
* Banana Bot: A twitter bot that regularly posts facts about bananas.
  + Tech used:
    - AWS: hosting the script to ensure nobody ever misses a banana fact.
    - Twitter API
    - Python
  + Tags: fun
* **STEM Workshop Curriculum**: 20 hours of curriculum for teaching elementary to middle school students the basic of 3D modelling, web development, GIS, and design thinking.
  + Tech used:
    - TinkerCAD
    - Makerbot 3000: Modelled and 3D printed fidget spinners for the students.
  + Tags: service, code

Other content:

* Extended resume
* 1-paged resume
* Mentions
  + Latinitas magazine
  + There something about Dean’s List?
  + Something about robotics with a mention
* Links
  + LinkedIn
  + GitHub
  + Email (98)
* Current projects: (tag = current)
  + Cornell Campus-Wide Gift Exchange: Develop a system to match Cornell students in a gift exchange.
    - Tech used:
      * SQL?
      * Node.js?
* Causes I’m passionate about:
  + Making STEM accessible to everyone.
  + Using tech ethically to improve quality of life.

Me: Create a society where cutting-edge technology benefits everyone instead of creating further disparities between the haves and the have-nots.

I’m an Austinite studying Engineering Physics at Cornell University in Ithaca, New York. I enjoy solving problems that I know can have an impact on the “real world”- the bigger the scope of the problem and the less defined it is, the better. This drive is supported by my ability to pick up on patterns across topics, and then drill down until I find the root cause of the relation.

I’m a fan of almost every STEM field, but my main interests are:

* Big data, machine learning, and analytics. We’re entering an age where we’ll know more and more about the members of society. I want to help make it a prosperous one.
* Advanced computing methods. To reach its full potential, the field of data science will need to be supported by increasing computing capabilities.

The problems I want to solve with these tools include:

* Promoting social equality. Everyone should access to what they need to be comfortable. Period.
* Guaranteeing universal tech literacy. For everyone to have this chance at comfort, they need to know how to navigate the increasingly technical world.

None of my interests exist in isolation. Big data and machine learning and technology in general have an incredible opportunity to do good. Our best shot at ensuring this is to make sure any advancement benefits everyone instead of creating greater gaps between the tech elite and the tech illiterate.