Technology Proposal

HTML/CSS Javascript:

* Because I have some exposure to HTML and CSS but want to learn more and solidify my skills in it.
* Most popular combination
* Use Javascript in conjunction to HTML/CSS
  + Provides dynamic user interaction
  + Executed on client side, ie. the processing is executed on the user’s computer, which makes it fast for the user to use.
  + Extend functionality to web pages by implementing third part add-ons
  + Relatively easy language because its syntax is close to English
  + Visualization libraries:
    - <http://www.sitepoint.com/twelve-javascript-libraries-data-visualization/>

Ruby:

* Ease of Use:
  + It’s object oriented.
  + User-friendly: clean, elegant, easy to read.
* Flexible:
  + There are many ways to write the same functionality.
  + Enables you to build more complicated functionalities. PHP, a popular alternative, is good for more basic websites.
  + We need functionality because we’re going to be displaying a lot of graphics.
* Fast to use:
  + Good for RAD (rapid application development)
  + Development time is rapid. Other languages might take 1.5-2 times compared to length of Ruby on Rails.
  + It’s free.
  + Accomodates change easily
* Growing popularity.
  + There’s a lot of open source code in the Rails community that you can use.
  + Startups really like Ruby because it’s good for RAD. Since we’re like a mini startup/working for a startup, it’s a good fit.
  + It’s an up and coming language that shows you’re up to date with the latest trends.
* I already know Java and some Python so I want to learn something new.

Infogram: Ruby gem