

# Magna Carta: A Literature Review

*Group Members: April Yu, Gavin Mai, Kirby Gee*

As students graduate from college, there is no clear way to explore the various career paths that are available. Often, recent graduates manually parse through the thousands of job postings available on the internet and must physically track how qualified they are for a specific position. At best, recent grads can ask mentors and peers for advice as to which occupations best align with their skill set. This lack of an efficient career exploration tool results in many recent graduates feeling like they don't have many opportunities outside of a strictly small subset of occupations.

Many tools attempted to fill the void. There are a wide range of career path surveys that ask you questions about your interests, skills and passions. There are also a bunch of personality tests, such as Myers-Briggs personality test (<http://www.humanmetrics.com/cgi-win/jtypes2.asp>). These tests try to qualify your personality in four different categories:

1. Extraversion vs Introversion
2. Sensing vs Intuition
3. Thinking vs Feeling
4. Judging vs Perceiving

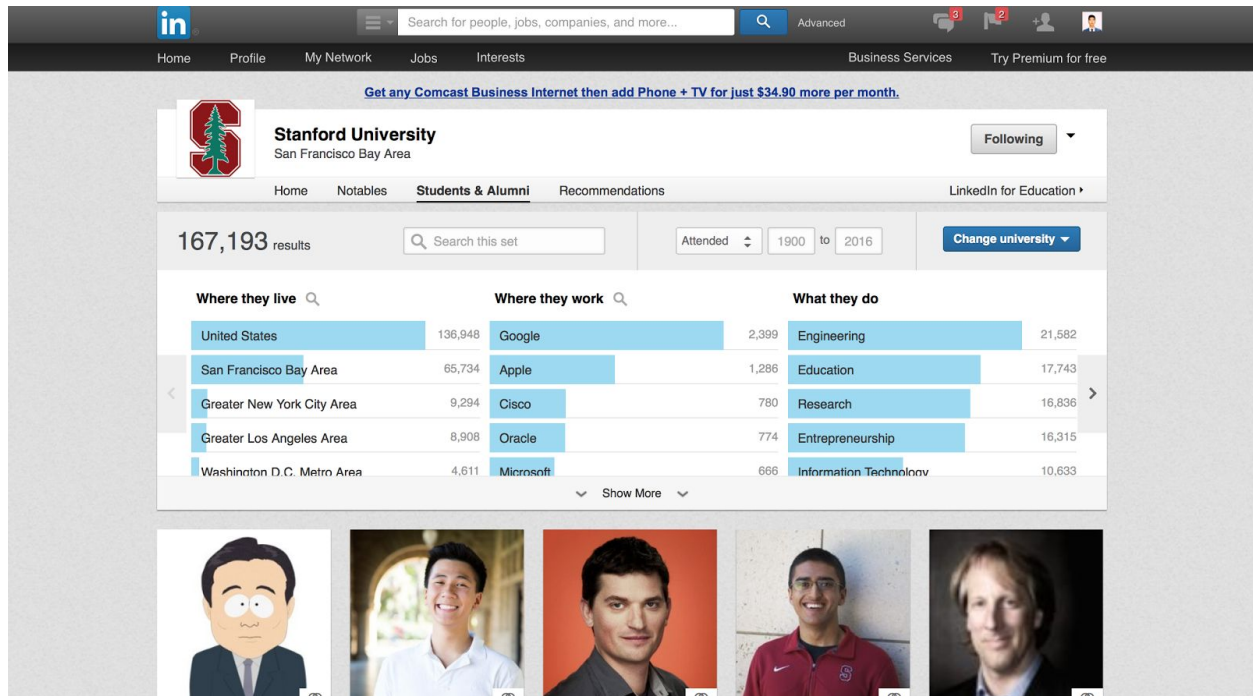
Everyone falls into one of 16 different unique combinations. At websites may feel so inclined to assign you a different job/career goal depending on your categorization. For example, if you are more introverted and thinking, the website may suggest that you become a scientist or engineer. If you are more extroverted and feeling, you may become a politician or english teacher. However, this is extremely limited in scope - it pigeon holes everyone into cubby size career paths and don't show the paths that everyone takes, which is very non-linear.

There are some tools that allows students to see paths within college such as CourseCycle ([coursecycle.com](http://coursecycle.com)), Treeviews ([treeviews.io](http://treeviews.io)), StanfordRank ([stanfordrank.com](http://stanfordrank.com)), and Edusalsa ([edusalsa.com](http://edusalsa.com)). These various tools allow Stanford students to look up particular classes, see the grade distribution and read reviews about the professor and the class itself. In short, it provides students a way to understand their current academic trajectory and shows them ways to get to their goals based on

previous students' histories. This insight is invaluable. Why isn't there something like this for after college? Perhaps after college, the paths we take are too unpredictable as there isn't a carefully curated environment like a college campus to base our decisions on. However, that is an excellent reason to explore this.

A tool to join this mission of helping students discover their career paths is Princeton Review's Career Quiz (<http://www.princetonreview.com/quiz/career-quiz>). The questions asked here are simple either-or questions that gauge your interest in differing career options and which one seems more appealing.

Another tool that is often used in current career paths is LinkedIn. Usually reserved as a networking tool, LinkedIn also has an option to provide valuable analytics in the form of 1st, 2nd and 3rd degree connections, alumni career decision (only big picture ideas).



*LinkedIn Career Choice Exploration for Alumni of Stanford University*

We hope to build a tool that completely negates this exploration barrier. Our tool will visualize a student's perspective career without having to have particular internships/jobs in mind. All users have to do is enter a skill(s). Additionally, our tool will allow users to look ahead more than 1 job (as limited by LinkedIn and other websites like Princeton Review). With a wider point of view for their careers choices, we hope that students will feel more freedom when deciding the path to take from graduation to their career goals.

## Project Plan

<b>Task</b>	<b>Due Date</b>	<b>Team Member</b>
Pre-process data	Wednesday, May 25	April: receive data and load Kirby: pre-process data to work with our use case
Design iterations	Wednesday, May 25	Gavin
Build backend functionality	Sunday, May 29	April: load data to work with d3 Kirby: create backend graph representation Gavin: begin working on d3 graph representation
Create basic graph	Tuesday, May 31	All members: Piecing together various pieces from the above milestone
Implement interactions and transitions	Thursday, June 2	All members: designing user-friendly transitions and coding them up into d3
Final design tweaks	Friday, June 3	All members: doing final design tweaks for the pure aesthetics of the tool