

Engineering Jobs Analysis

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Team #2

Overview

- Project Motivation
- Dataset & Methodology
- Job Distribution analysis
- Ratings analysis
- Salary analysis
- Employee Reviews
- Conclusion

Objective

In an attempt to help you find your ideal place of work after graduation, we endeavoured to answer the following questions:

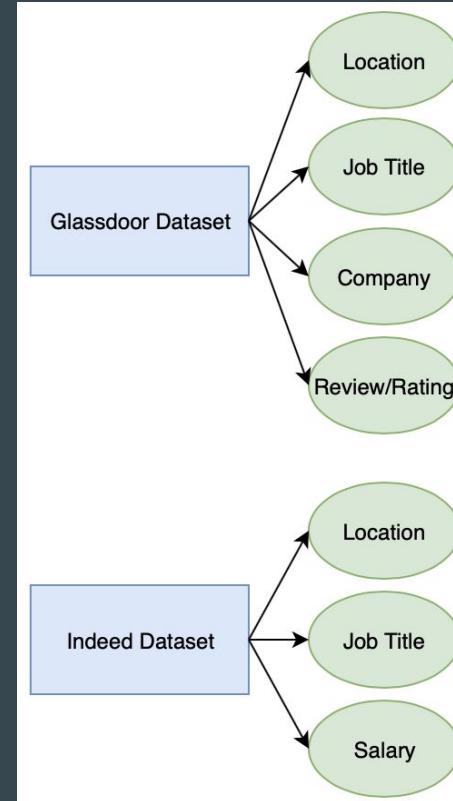


- Where is the highest concentration of jobs in hardware and software?
- Which companies have the best reviews from their employees? Which job titles have the highest ratings?
- Where are the highest paying jobs?
- What do people like about each company? What do people hate about each company?

To help find your ideal job, consider what you want the most: money, work/life balance, career advancement opportunities, or to live in a high-tech area.

Data Source

- We generated two different data sets from Glassdoor and Indeed.



Attributes for each instance in our data

Methodology

We broke down jobs into two types: Hardware and Software. We then analyzed these jobs at 8 different companies to determine the best location and company based on salary, ratings, and review data.

The companies we analyzed were:

- Amazon
- Apple
- Google
- Microsoft
- Cisco
- General Electric
- Northrop Grumman
- Intel

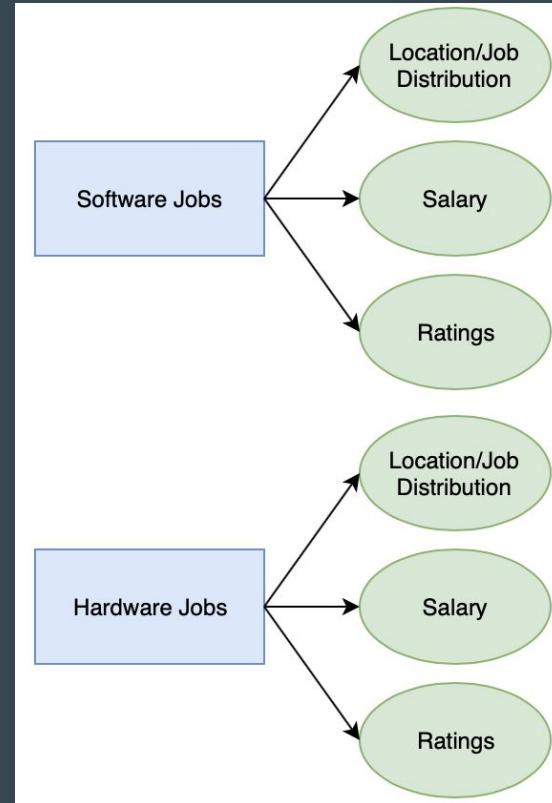
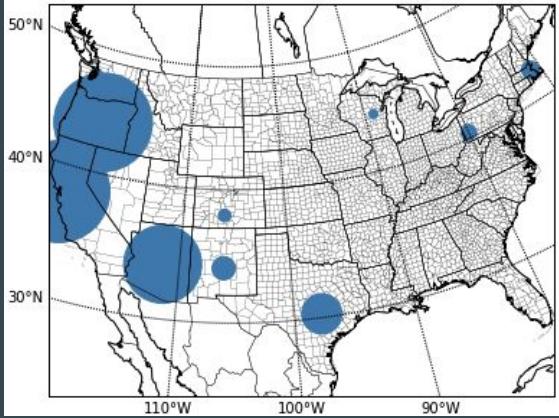


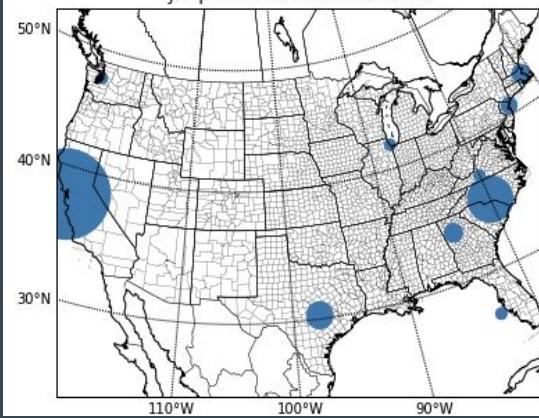
Diagram of how our analysis was broken down

Job Distribution Analysis

Job positon distribution of Intel

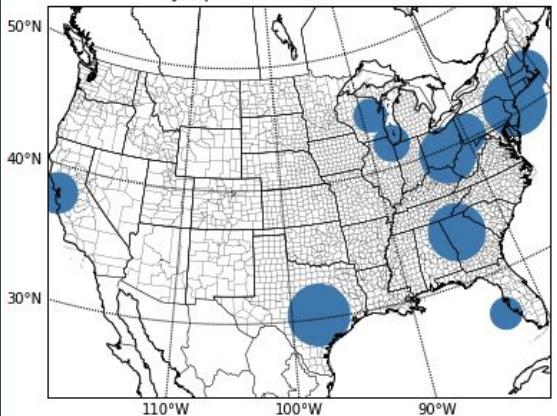


Job positon distribution of Cisco

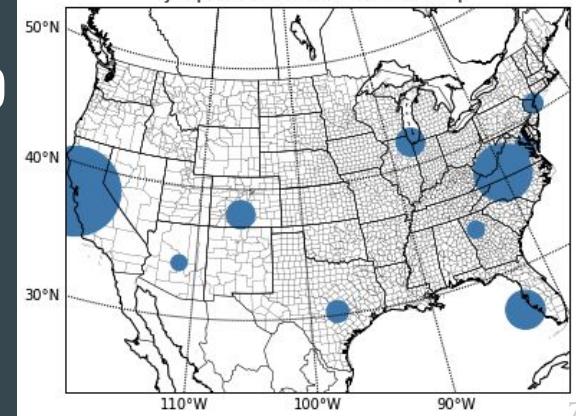


Job Distribution for **Hardware** Jobs

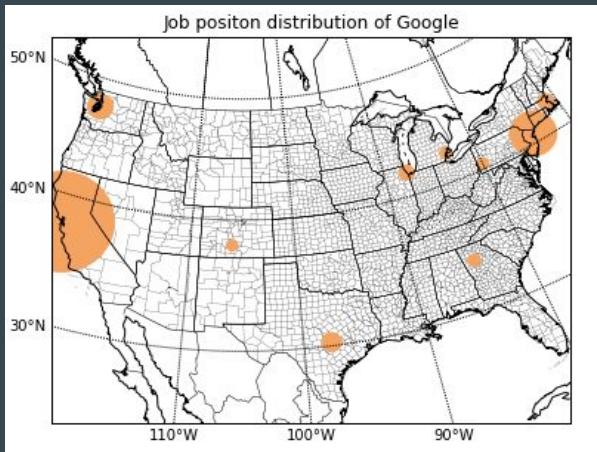
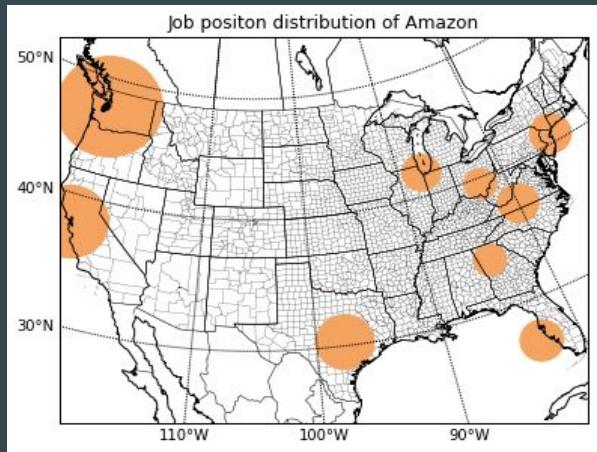
Job positon distribution of GE



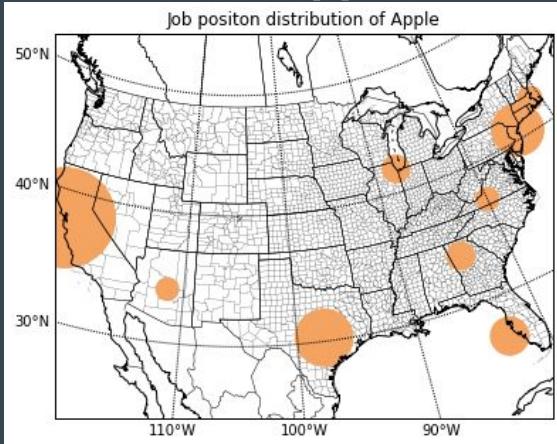
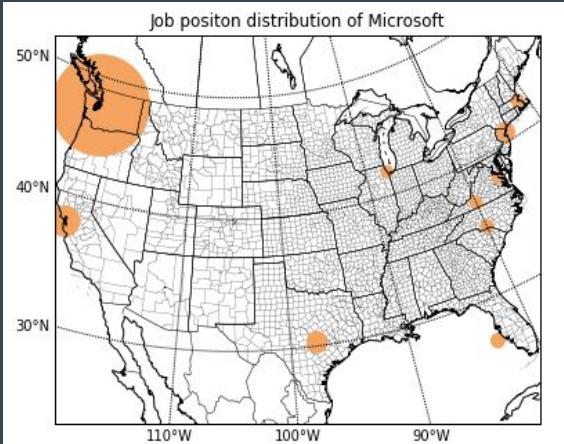
Job positon distribution of Northrop



at Intel, Cisco, GE, Northrop

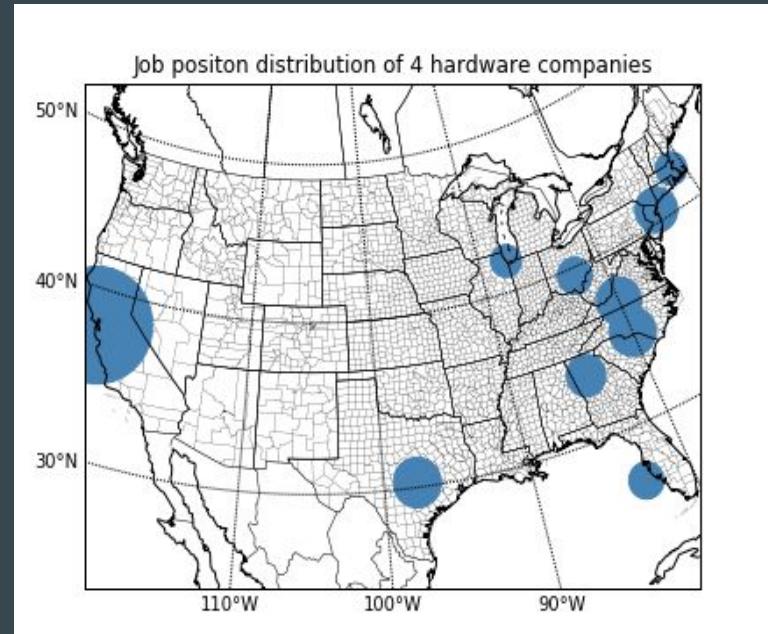
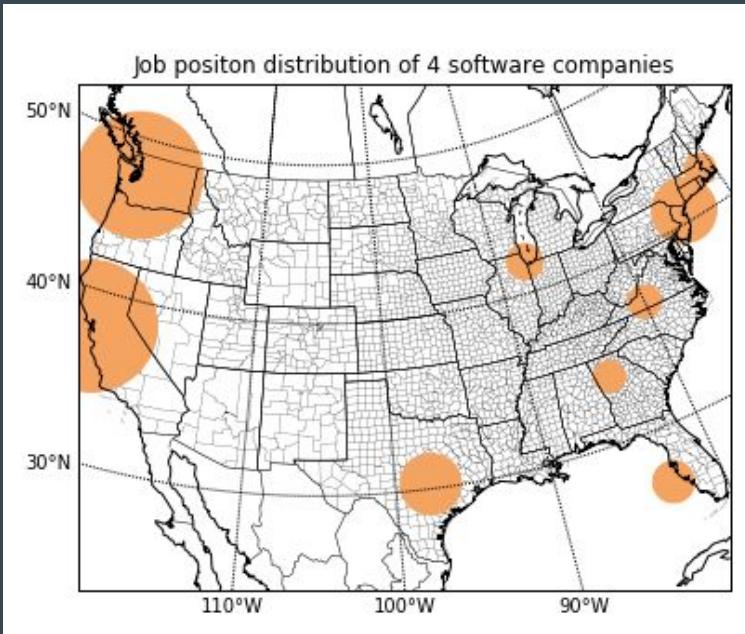


Job Distribution for **Software** Jobs at Amazon, Google, Microsoft, and Apple



Job Position Distribution (Software vs. Hardware)

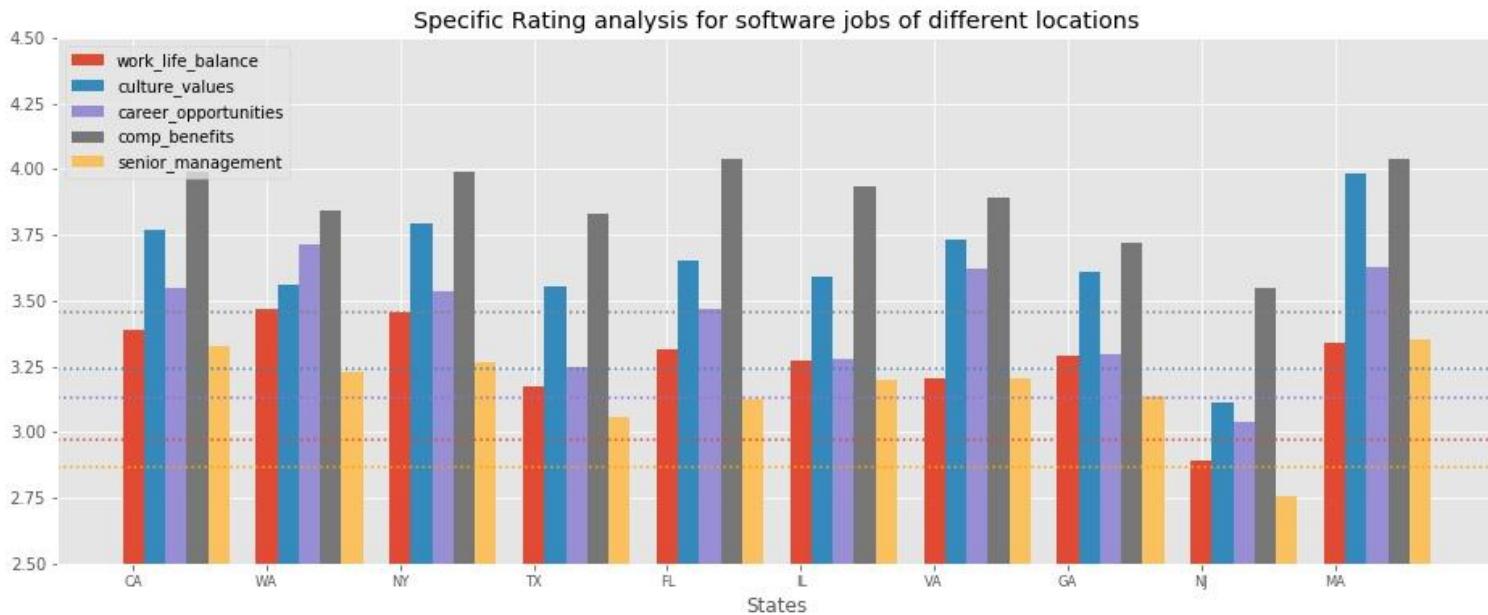
- Software: Mostly CA and WA, few part in eastern U.S. and little part in central U.S
- Hardware: Mostly CA, many states in eastern and central U.S.



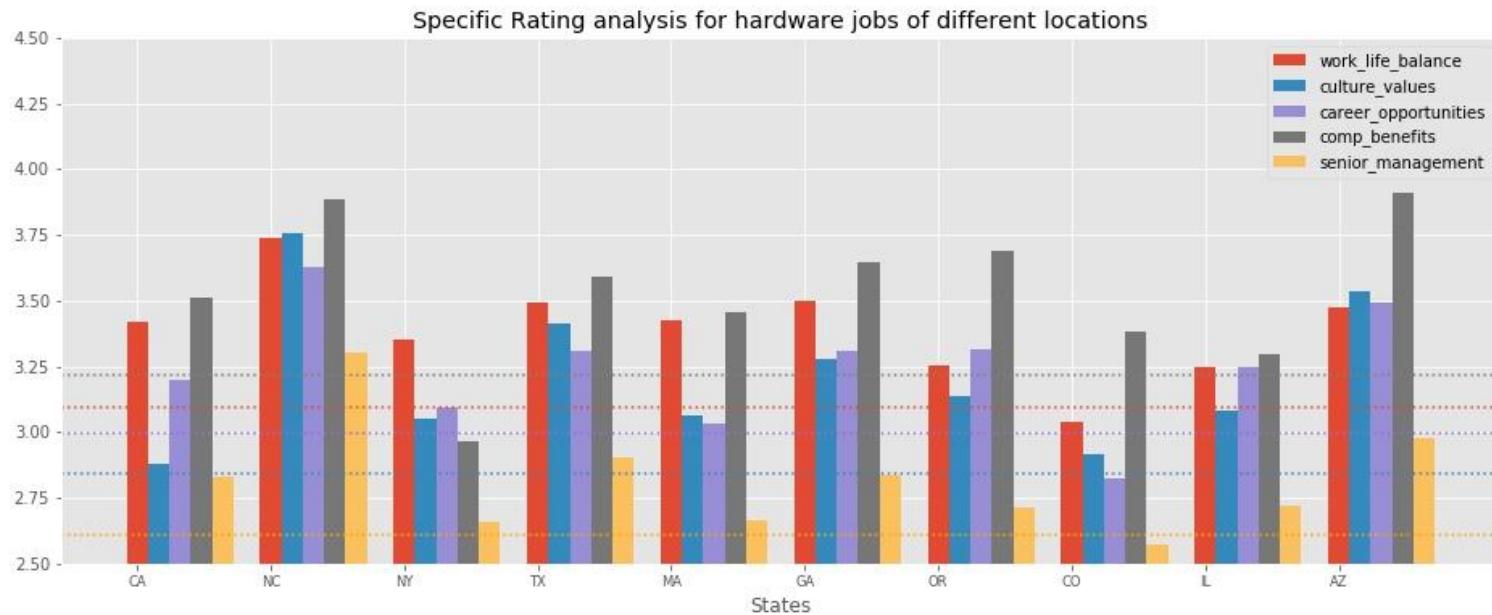
Satisfaction Analysis

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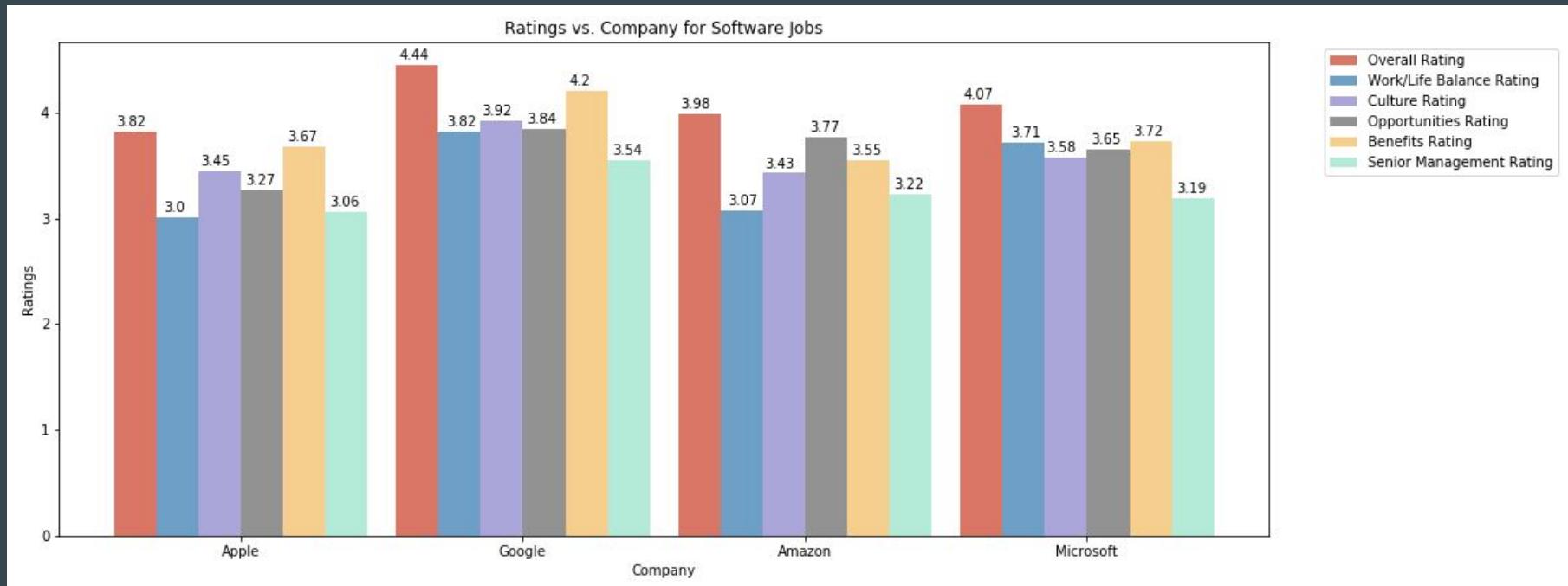
Job Satisfaction vs. Location for **Software** jobs



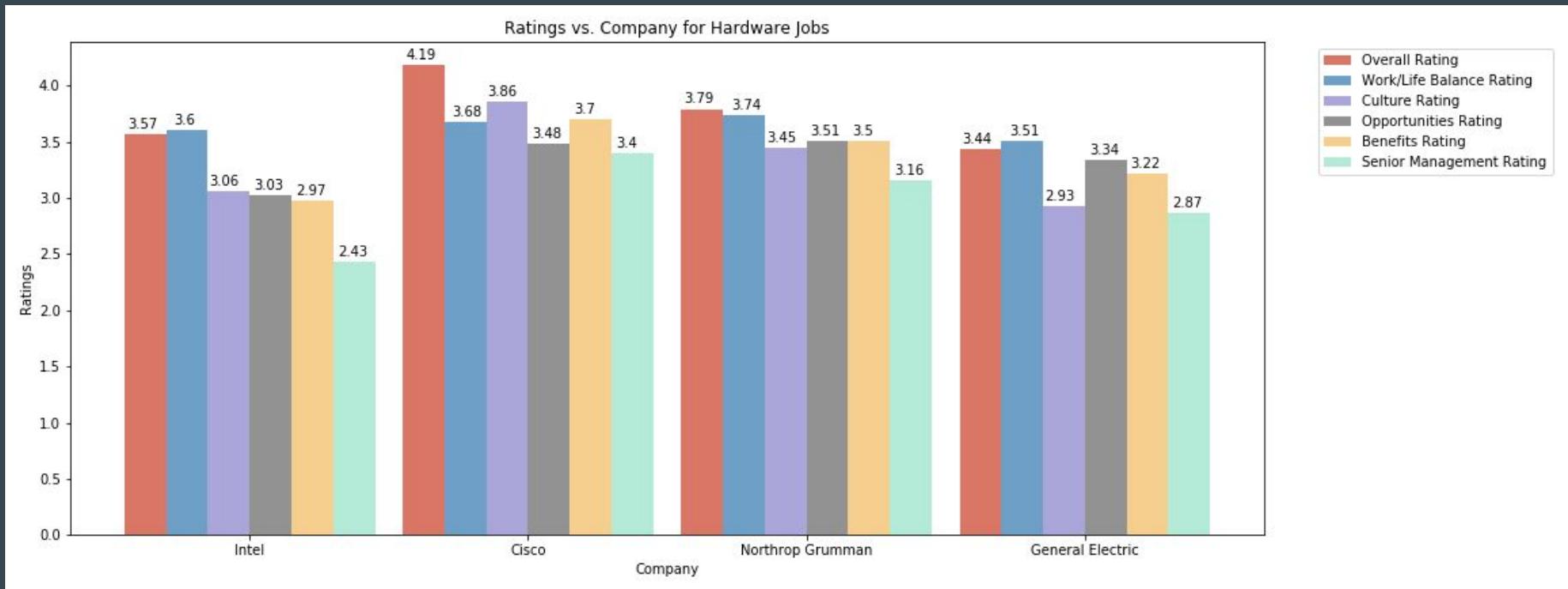
Job Satisfaction vs. Location for **Hardware** jobs



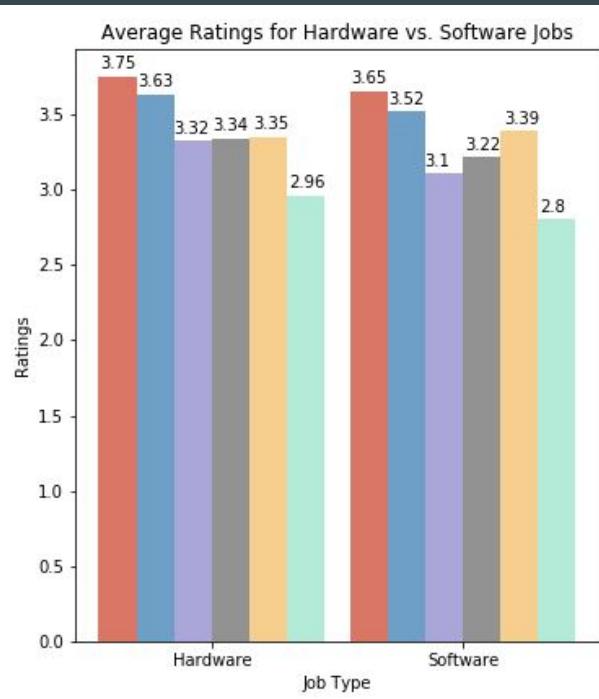
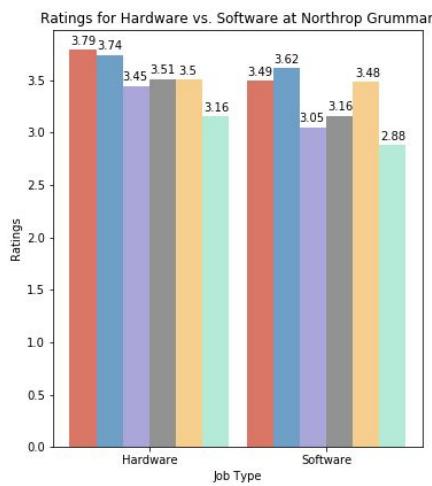
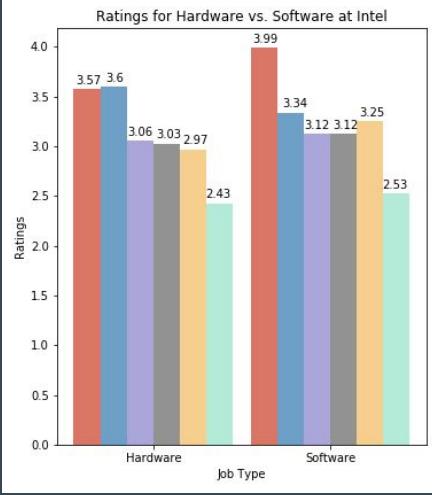
Satisfaction vs. Company for Software Jobs



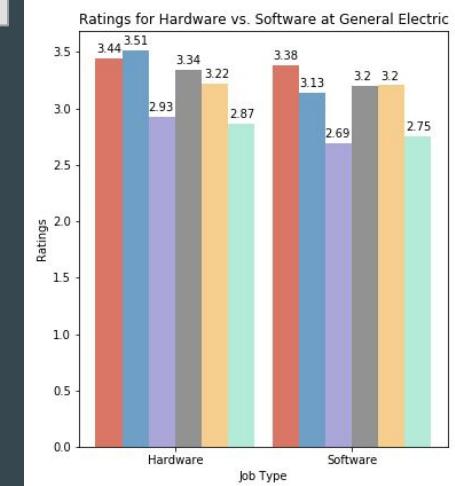
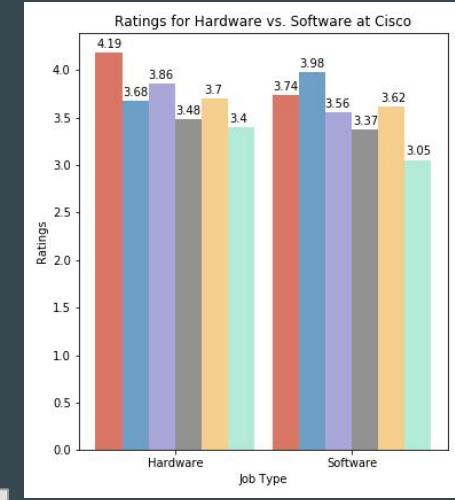
Satisfaction vs. Company for **Hardware** Jobs



Satisfaction vs. Job Type



- Overall Rating
- Work/Life Balance Rating
- Culture Rating
- Opportunities Rating
- Benefits Rating
- Senior Management Rating



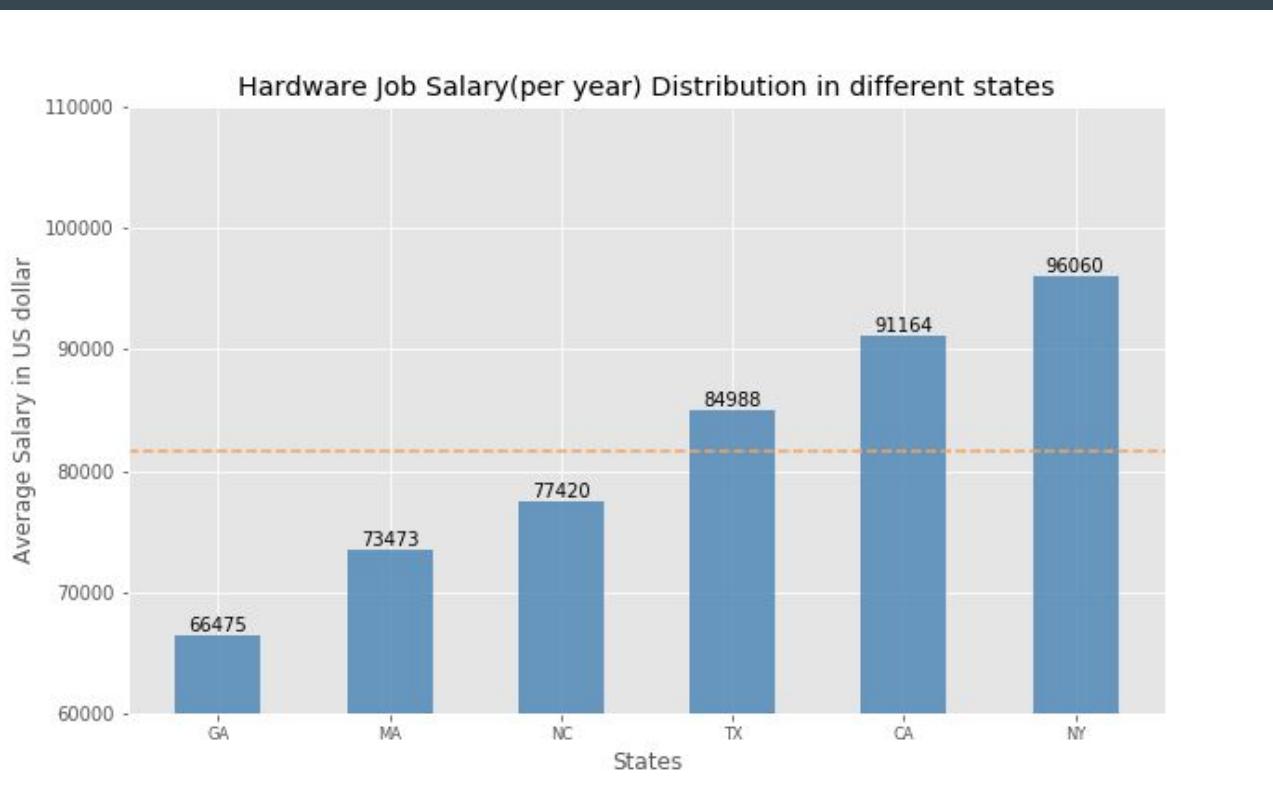
Salary Analysis

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Software Salary vs Locations



Hardware Salary vs Locations



Mean: \$81,596

Software Mean:
\$92,905

Employee Reviews

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Word Clouds : Common PROS vs CONS



Pros

- Benefits
- Culture
- Smart People



Cons

- Management
- Politics
- Hard projects

Word Clouds : PROS vs CONS for Google



Pros : Free food, Smart People, Perk, Benefit

Cons : Hard Projects, Much work, Promotion



Word Clouds: PROS vs CONS for Apple



Pros : Benefit, Discount, Great people, Culture



Word Clouds: PROS vs CONS for Amazon



Pros : Pet friendly, Work environment



Cons : Manager, People

Word Clouds: PROS vs CONS for Microsoft

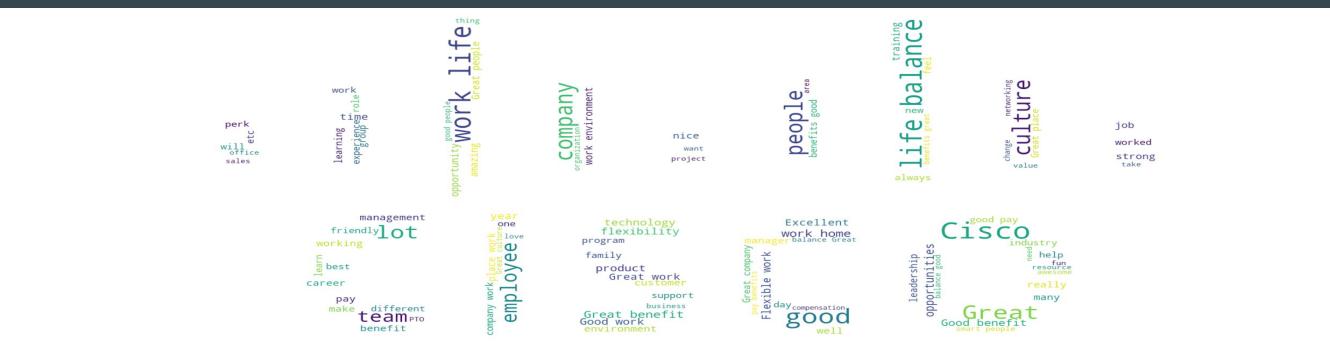


Pros : Work life balance, Benefits,
Smart people, Opportunities



Cons : Customer, Competitive, Product,
Leadership

Word Clouds : PROS vs CONS for Cisco



Pros : Work/Life Balance, Culture, Employee, People



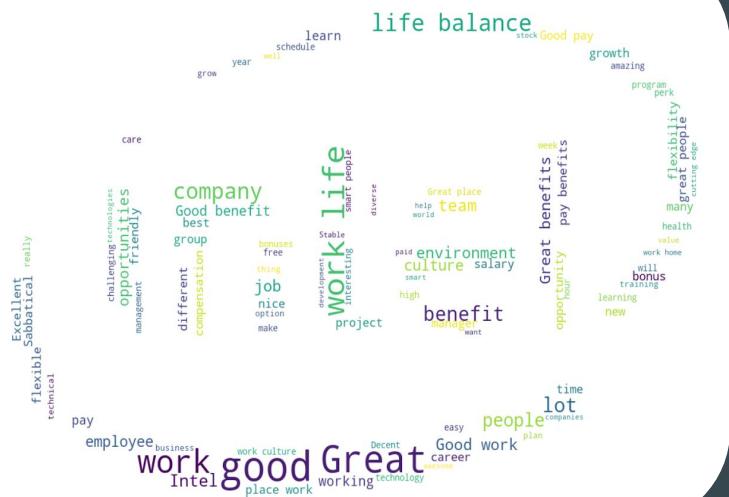
Word Clouds: PROS vs CONS for General Electric



Pros : Benefit, Culture, Training, Experience



Word Clouds : PROS vs CONS for Intel



Pros : Work life balance, Opportunity, Great benefits, Flexibility



Word Clouds : PROS vs CONS for Northrop

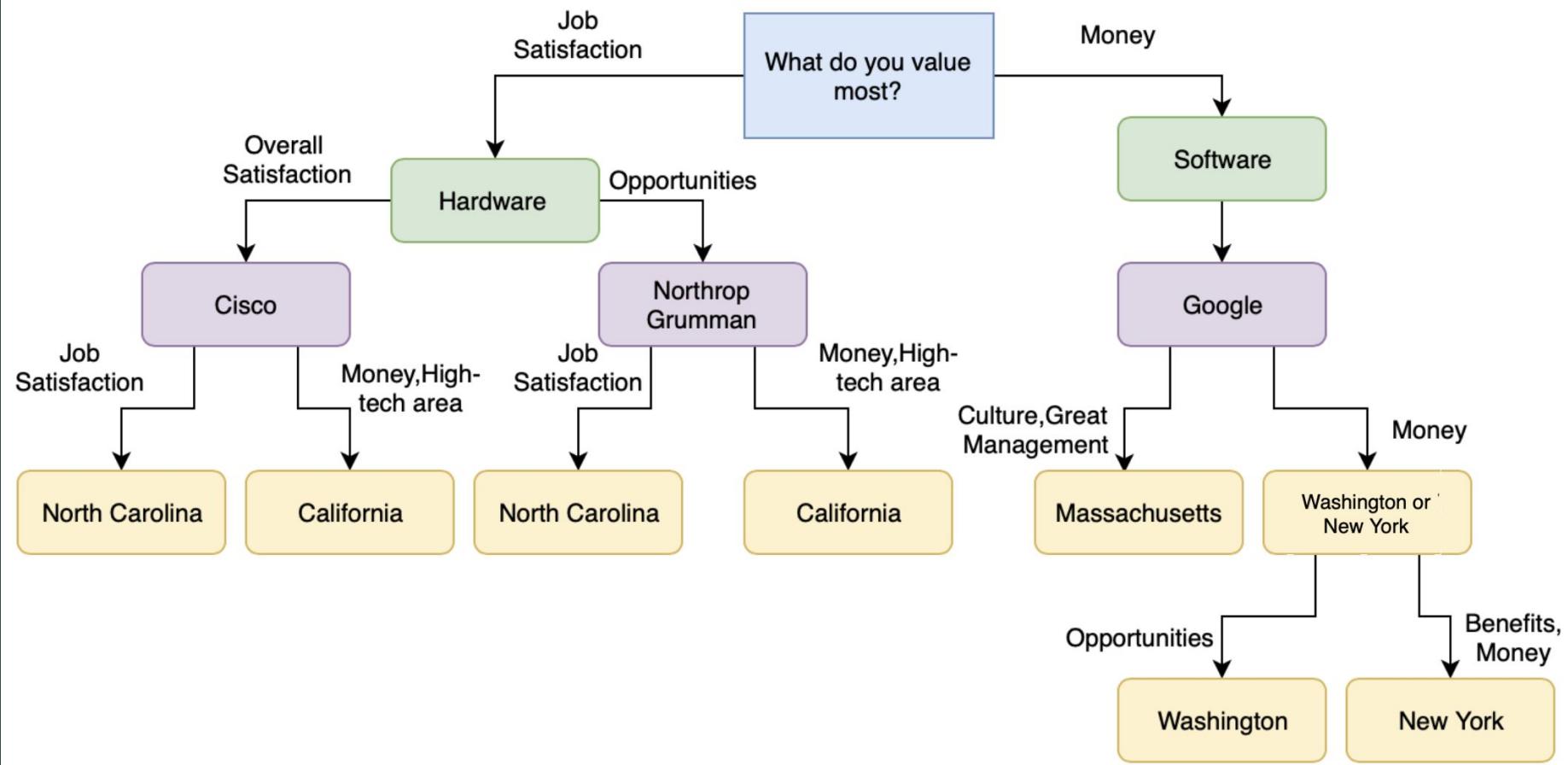


Pros : People, Benefit, Schedule, Opportunity

Cons : Management, Slow, Culture, Experience

Conclusion

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Thank you!