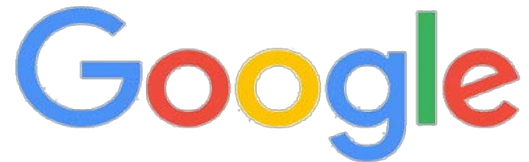


My Challenge:

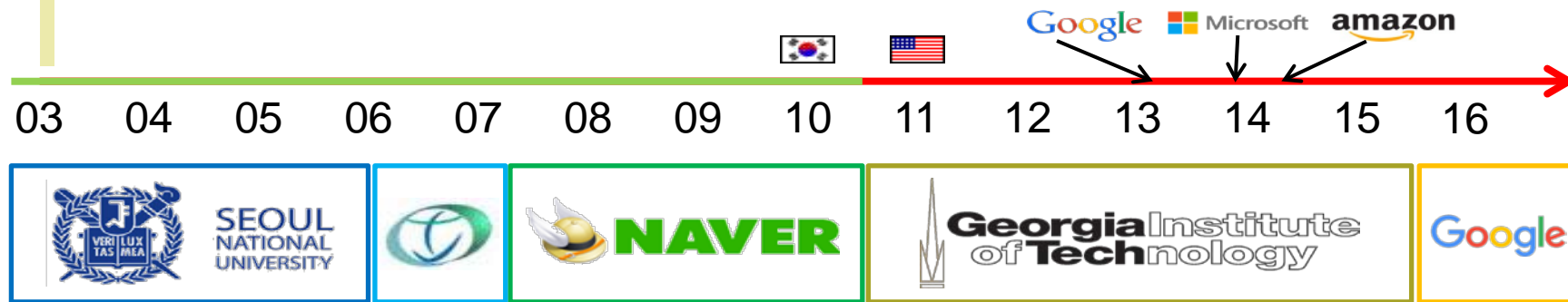
Settling down in Silicon Valley

Joonseok Lee

2016/11/03



The Speaker



Undergrad
Computer Sci.

Software Engineer.
Motion tracking,
Server log data
analysis.

Graduate study (Ph.D.)
Computer Science,
Machine Learning.
Recommender Systems.

The Speaker

- YouTube Video Recommendation
 - Video understanding using machine learning techniques

The screenshot shows a YouTube video player interface. The main video is titled "The Second Presidential Debate: Hillary Clinton And Donald Trump (Full Debate) | NBC News" and has 9,237,048 views. The video player shows a split-screen view of Donald Trump and Hillary Clinton. The video progress is at 44:07 / 1:32:46. The video is from NBC News. The video player includes a search bar, a search icon, an upload button, and a notification bell with a red '7' badge. The video player also includes a play button, a volume icon, a full screen icon, and a share icon. The video player also includes a "Subscribe" button with 228,168 subscribers. The video player also includes a "Share" button and a "More" button. The video player also includes a "Add to" button. The video player also includes a "Watch Live" button. The video player also includes a "Full Video" button. The video player also includes a "Top Moments" button. The video player also includes a "Comments" button. The video player also includes a "Related Videos" button. The video player also includes a "Suggested Videos" button. The video player also includes a "Recommended Videos" button. The video player also includes a "Up next" section with a red circle around it. The "Up next" section includes the following videos:

- Up next: FULL: Donald Trump vs. Hillary Clinton - Second Presidential Debate (RBC NETWORK BROADCASTING) 1,914,224 views | NEW | 1:33:54
- Watch Live: The 2nd Presidential Debate (CBS News) 1,154,710 views | NEW | 1:40:47
- Donald Trump On Tape: I Grab Women "By The Pu**y" (The Daily Conversation) 725,363 views | NEW | 3:02
- FULL VIDEO: Donald Trump vs Hillary Clinton - 2nd (23 ABC News | KERO) 320,037 views | NEW | 1:40:35
- Top Moments Of The Second Presidential Debate (NBC News)

Today's Talk

- Experience and lessons from **graduate school**
- **Internship** experience in IT industry
- Full-time **Job search** in Silicon Valley

- Based on **personal experience**
 - Focusing on **Software Engineers**, in Research
 - Could be biased

Graduate School

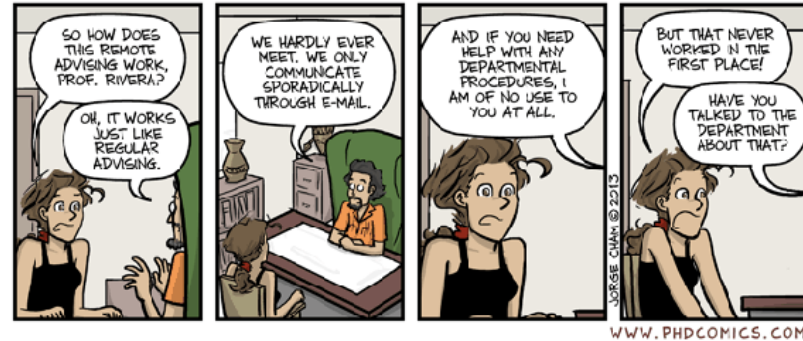
Applying to Graduate School

- Undergraduate **Research Participation**
 - Many candidates already have **publications**.
 - Very common in other countries.
 - Opportunity to **learn** entire research process, writing, and tools.

- My experience
 - URP with Prof. Bob McKay in SNU

Choosing the Advisor

- Common Scenario:
 - Choose an area to work on.
 - Search professors in that area.
 - Choose one of them.
- My suggestion:
 - **Exclude** areas that you really don't want.
 - Meet as many professors as possible, in various areas.
 - Choose the best advisor, considering
 - **Personality**, **time**, research **activity**, funding. Then area.



Success in Graduate school

- Need to actively **lead** research
 - The student is **responsible** for his own research.
 - Advisor guides and helps.
- **Opportunities** might come from anywhere.
 - Meeting people in conferences
 - Campus events, seminars, ...

- My experience
 - MSR internship chance

Internship



Internship Programs

- From college **freshmen** to graduate students
 - Engineering Practicum Internship at Google
 - Explore Microsoft Program
- Opportunity for **full-time conversion**



Internship Programs

- Not just work!
- Opportunity to learn
 - **Culture** of the organization
 - Most important **values** in the company
 - **Living environment** of the area



Organize the world's information and make it accessible and useful.

Research Internship

- **Research** internship for graduate students
 - Conduct original research related to products.
 - Expected to publish academic **papers**.
 - Working closely with **world-renowned researchers**.
 - Rich **data, computing power, ...**

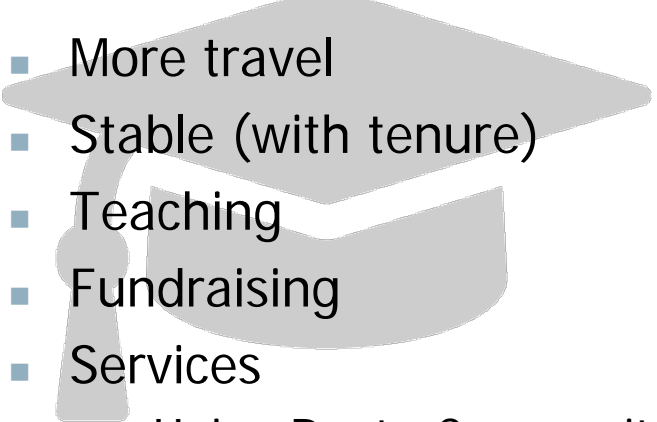
- My experience
 - Summer internship with Dr. Yoram Singer at Google

Job Search

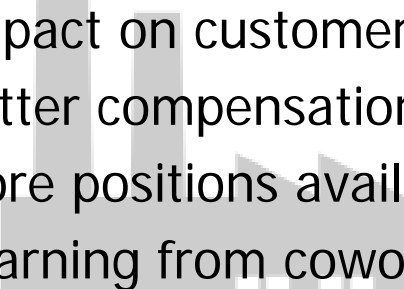


Academia vs. Industry

■ Academia

- Time flexible
 - More travel
 - Stable (with tenure)
 - Teaching
 - Fundraising
 - Services
 - Univ., Dept., Community
- 

■ Industry

- Impact on customers
 - Better compensation
 - More positions available
 - Learning from coworkers
- 

Software Engineer Interview

- Technical Interviews
 - Given a **technical** question, discuss and actually code a solution.
 - Concentrate on **problem solving** and thinking process.



Software Engineer Interview








- Sample questions
 - **Coding**: Given an integer array of size n , write a function returning the smallest positive integer, which is not in the array.
 - **Design**: Design Google Map.
 - **Open-ended research**: Design a classifier deciding the language of a blog posting.

- My experience: how did I prepare?

New Challenge: Silicon Valley Culture

- Impact
 - Added values to customers, colleagues, and society.
- Responsibility
 - Lead with responsibility, even more than grad school.
- Flexibility
 - Can work anywhere, any time, but responsible for result.
- Entrepreneurship
 - Everyone talks about start-up ideas everyday.

Pros and Cons

-  Lots of opportunity from other companies
-  Lots of resources, potential colleagues for start-up
-  Frontier of new technologies
-  Mecca of computer engineering ( less diversity)
-  Very high housing price, living expenses
-  Severe commuting traffic

Thanks for your attention!

