# Tech Job Application & Interviews

CS356 Object-Oriented Design and Programming

http://cs356.yusun.io

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Yu Sun, Ph.D.

http://yusun.io yusun@csupomona.edu





#### How to Choose Your Career?



# The Types of Software Development

- Web service development (Back-end)
- Mobile development
- Web front-end development
- UI/UX design
- Data engineer
- Software testing / QA
- Domain-Specific application development
- Desktop/System application development
- Embedded software development
- Database administrators
- System administrators





# The Types of Software Companies

- Big Hightech
- Startups
- Traditional Top 500
- Small Companies



# The Types of Jobs

- Full-Time
- Internship
- Part-Time
- Startup



# The Salary



## Suggestions

- Interests & Passion are the most important
  - Do the job you like
  - The team is sometimes more important than the company
- No idea?
  - Just do it
  - Then you know what you want
  - You will not regret about what you have done

# How to Apply?



#### Referral

It's not what you know, it's WHO you know



#### Career Fair

- Good opportunities
- Do your homework!



# **Apply Online**

- Apply as many as possible
- Don't worry too much about the requirements Just try
- Chance is small, but there are chances



#### LinkedIn

- Be technical
- Make yourself searchable



#### **About Resume**

- Be short: I-2 Pages
- Things to highlight: technical, technical, and technical!
  - Technical experiences/project
  - Technical skills
    - Years of experiences, e.g., Java (4 years), Python (3 years)
    - Be like a CS major (no MS Office, Windows, etc.)
  - Related awards
  - Project links / websites
- No empty words
  - "Great leadership", "Teamwork spirit", "goal-driven", etc.

# When to Apply?

- About 6 months ahead
- Sumer Internship: end of the year or early next year

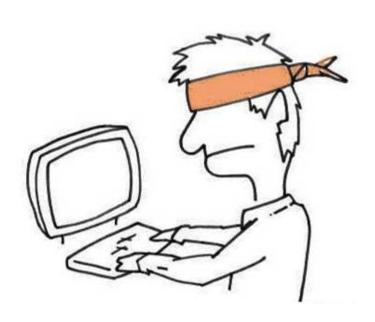


#### What's the Format of Interviews?



#### Phone Interviews

- About I-3 phone interviews
  - Each 40 mins
  - 2-3 questions (80% coding)
- Phone interview = Computer Coding
  - http://collabedit.com/
  - Google Doc
- Topics
  - Data structure and Algorithms
  - OO concepts
  - OO design
  - System design
  - Math/Probability
  - Brain teasers



#### Onsite Interview

- I-day on-site interview
  - Meet around 5 engineers and I manager
  - Each 45 mins
  - I-2 questions (90% coding)
- Onsite Interview = White board coding
- Extremely tired
  - Take exercises
  - Coffee



# How to Prepare?



#### Work Hard

- Don't expect any shortcut
- At least 2 months algorithms practice
- Every single day



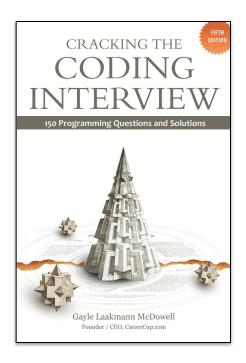
# Female Developers

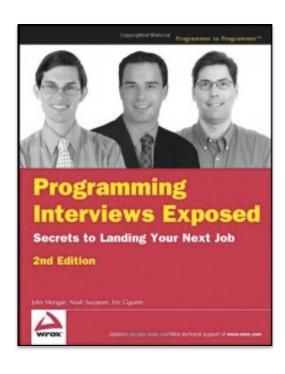
Interview bars are a little bit lower

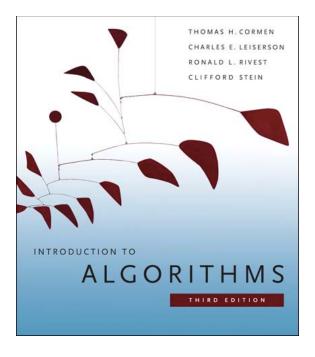


#### Recommended Resources

- http://leetcode.com/
- http://www.careercup.com/







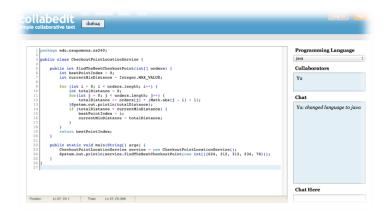
## The Recommended Way

- Practice with real questions
- Learn and summary the things you don't know
- Repetition!

## **Tips**

- Practice coding in a non-IDE environment
  - http://collabedit.com/
  - Google Doc
- Practice coding with a white board

- Pay attention to time complexity
- Practice explaining your code while writing it
- Practice asked questions
  - http://www.careercup.com/
- Team practice and stress practice





## Prepare Questions to Ask

- Make yourself professional and technical
- Ask
  - Projects
  - Techniques and tools
  - Software development approaches
  - Be specific and relevant
- Don't ask
  - Weather
  - Work schedule
  - Holidays



### Behavior Questions

- Prepare the basic
- Know your own resume very well!



# Start Preparing from Today

