2 Day Special Workshops for Technical Interviews

Day I

Yongwhan Lim 6pm PT, Thursday, April 6, 2023

Yongwhan Lim









Education





Part-time Jobs







Full-time Job





Workshops















Coach/Judge





https://www.yongwhan.io

Yongwhan Lim









- Currently:
 - CEO (Co-Founder) in a Stealth Mode Startup;
 - Co-Founder in Christian and Grace Consulting;
 - ICPC Internship Manager;
 - ICPC North America Leadership Team;
 - Columbia ICPC Head Coach;
 - ICPC Judge for NAQ and Regionals;
 - Lecturer at MIT;
 - Adjunct (Associate in CS) at Columbia;



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Overview

- Part I: Interview Preparation
 - Interview Types
 - Technical Interview
 - Interview Topics
 - Interview Preparation Resources
- Part II: Competitive Programming
 - CodeForces
 - o ICPC

Part I: Interview Preparation

Interview Types

- Technical Interview
 - Tests technical skill-sets required for a job.
- Behavioral Interview
 - Tests soft skills (e.g., effective communication, conflict resolution, etc)

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Technical Interview

- Recruiter Call
- 0-1 Online Coding Challenge
 - automated screening with 2-3 questions.
- 2-3 Technical Phone Screens
 - first technical conversation with human.
- 4-7 Interviews in Onsite
 - similar to phone screening but more in-depth; you may get probed on your claimed expertise.
- 0-5 Fit Calls & Negotiation

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Fundamentals

- Arrays and Linked Lists
- Binary Trees
- Heaps
- Sorting

Important

- Stacks and Queues
- Hash Tables
- Binary Search Trees
- Searching
- Recursion

Real Differentiators

- Strings: Knuth Morris Pratt (KMP); Rabin Karp / String Hashing; Suffix Array; Suffix Automaton;
- Dynamic Programming: 1D; 2D; Interval; Tree;
- Greedy Algorithms and Invariants: Matroid;
- Graphs: Shortest Path; Flow / Matching; Minimum Spanning Tree;

Interview Preparation Resources

Popular Websites

- LeetCode: Solve all four weekly/biweekly problems in <u>20 minutes</u>!
 - 1+2+4+8 (+5 buffer)
- CodeForces: Get to 2200+ rating
 - Clear 5 questions out of 6 **fast**!
- AtCoder; TopCoder; CodeChef;

Annual Contests

Meta Hacker Cup; Google Code Jam; TopCoder Open;

Interview Preparation Resources

- Elements of Programming Interview
- Competitive Programming 4

Part II: Competitive Programming

CodeForces

Get to 2200+ rating as fast as you can!

• Join the training sessions through ICPC CodeForces Zealots (https://discord.gg/7bvMnMyF6G).

International Collegiate Programming Contest (ICPC)

 If you would like to get involved in helping out as a volunteer or an official (unpaid) intern, please reach out to me at yongwoods@icpc.global.

1:1 Meeting Opportunity

 If you would like to meet in 1:1, please sign up using: https://calendly.com/yongwhan/one-on-one.

I'd love to help you landing your <u>dream</u> job!

Sneak Peek into Part II...

- We will briefly touch on how to do well in:
 - Behavioral Interviews;
 - System Design Interviews;
 - Machine Learning/Data Science Interviews;

 We will have few typical example questions that you can expect on each of these interview types!

Contact Information

• Email: yongwhan.io

Personal Website: https://www.yongwhan.io/

- LinkedIn Profile: https://www.linkedin.com/in/yongwhan/
 - Feel free to send me a connection request!
 - Always happy to make connections with promising students!