
Online Technical Interview Bootcamp at Stanford

Information Session

— Yongwhan Lim —
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Yongwhan Lim



Education



Part-time Jobs



Full-time Job



Workshops



Coach/Judge



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Yongwhan Lim



- Currently:
 - a **Co-Founder** in a Stealth Mode Startup;
 - **ICPC Internship Director**;
 - Columbia ICPC **Head Coach**;
 - ICPC **Judge** for NAQ and Regionals;
 - **Lecturer** at MIT;
 - **Adjunct** (Associate in CS) at Columbia;



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Information Session: Overview

- Logistics
- What is technical interview?
- Important Reminders

Online Technical Interview Bootcamp at Stanford

- **Time Slot:** 12pm PT - 2pm PT
- **Dates:** Sundays from April 9 to June 4 (**9** sessions)
- **Zoom Registration:** [Link](#)

Structure

- On the **first hour**, we will cover **major topics** required in technical interview preparations, through quickly introducing topics, followed by a **few exercises** curated for each topic.
- On the **second hour**, we will go over selected problems from **weekly live contests** (LeetCode, AtCoder, and CodeForces).
- **Top 3** presenters (e.g., Gold, Silver, Bronze) will get some **prizes** (TBD), on top of bragging rights!

(Optional) Textbooks

- **Algorithm and Data Structures Interview**
 - *Elements of Programming Interviews: The Insiders' Guide*, 2nd Edition, Adnan Aziz et. al.
- **Competitive Programming**
 - *Competitive Programming 4*, Halim et. al.
 - *Guide to Competitive Programming*, Laaksonen
- **System Design Interview**
 - *System Design Interview: An insider's guide*, 2nd Edition, Alex Xu
 - *The System Design Interview*, 2nd Edition, Lewis C. Lin, et. al.
- **Introduction to Algorithms (CLRS)**

Workshop Objectives

- **Master the fundamentals** needed to succeed in any entry-level technical interview at top-tier IT companies.
- We will also touch on some of the **system design** and **behavioral interview** questions (even if those are typically not part of the entry-level technical interview loop).
- Along the way, we will give you a feel for **what software engineers do** on a day-to-day basis.
- **Build your problem solving ability** through actively working on problems from popular programming websites like LeetCode, AtCoder, CodeForces, etc.

Popular Language Choices

- **C++**: Pick this one especially if you are considering to do ICPC
- Python
- Java

Assignments!

- Active participation in **LIVE** contests:
 - LeetCode; CodeForces; AtCoder;
 - Meta Hacker Cup; TopCoder Open;
- Practice on:
 - CSES; CodeForces; AtCoder; LeetCode; Project Euler; UVa; SPOJ; Kattis; USACO; ...
- **Daily Zealot Set** (through discord channel)

Important Note

- Do **NOT** be AFRAID to ask! I **love** students asking questions.
 - I am here to make you all **succeed/pass in the actual interview**.
 - You can think of me as a **coach** rooting for your success in life.
 - Let's pull this through together; I will lead you through this journey!
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- I am ready! **ARE YOU?**

Questions so far?

- If not, before finishing up, let's dive right into the "light" technical topic:
what actually is the technical interview?

Interview

- There are generally two types of interview: *technical* and *behavioral*.
- This bootcamp will focus on **technical** interview.

Technical Interview

- There are:
 - recruiter call
 - **0-1 online coding challenge**
 - **2-3 technical phone screens**
 - **4-7 onsite interviews**
 - 0-5 fit calls and negotiation
- There are two types:
 - **data structures and algorithms**
 - system design problems
- Assuming most people are going for entry-level, we will mainly focus on the first type.

Interview Topics

Fundamentals

- Primitive Type
- Array & Linked List
- Binary Tree
- Heap
- Sorting

Important

- **Stack & Queue**
- **Hash Table**
- **Binary Search Tree**
- **Searching**
- **Recursion**

Real Differentiators

- **String**
- **Dynamic Programming**
- **Greedy Algorithm and Invariant**
- **Graph**

Closing...

Important Notes

- Browse through [Terse Guides](#), which include:
 - Behavioral interview preparation
 - System design interview preparation
 - ICPC preparation
 - Live contests
 - Useful resources
- Some discord server invitations:
 - **[Online Technical Interview Bootcamp at Stanford]** <https://discord.gg/aJwHBccg3n>
 - **[ICPC CodeForces Zealots]** <https://discord.gg/QC9ss6WlPy>

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 dream job!

Contact Information

- Email: yongwhan@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!

Q&A's

