

facebook



New York



Above & Beyond CS (ABCS)

Coding Interview Workshop Series

New York City
Wednesday, September 4th



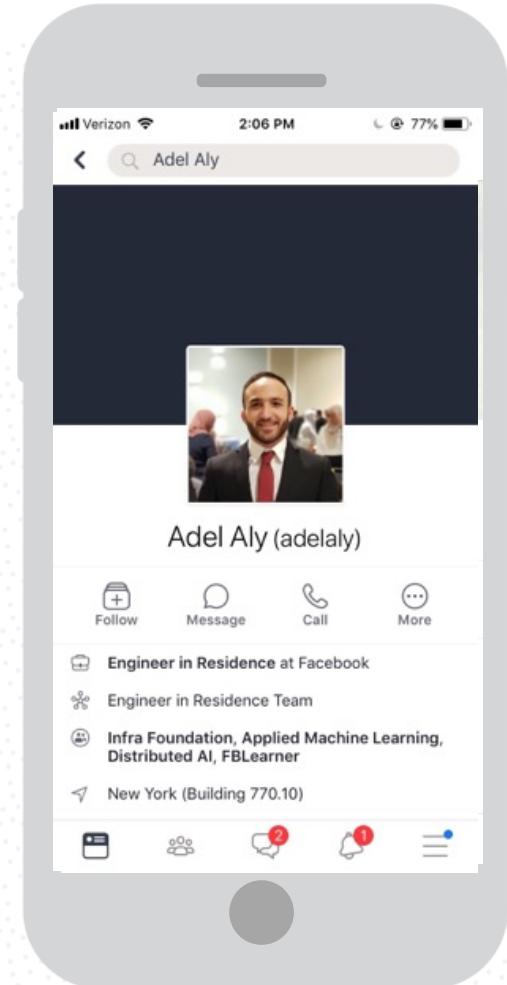
Kickoff Objectives

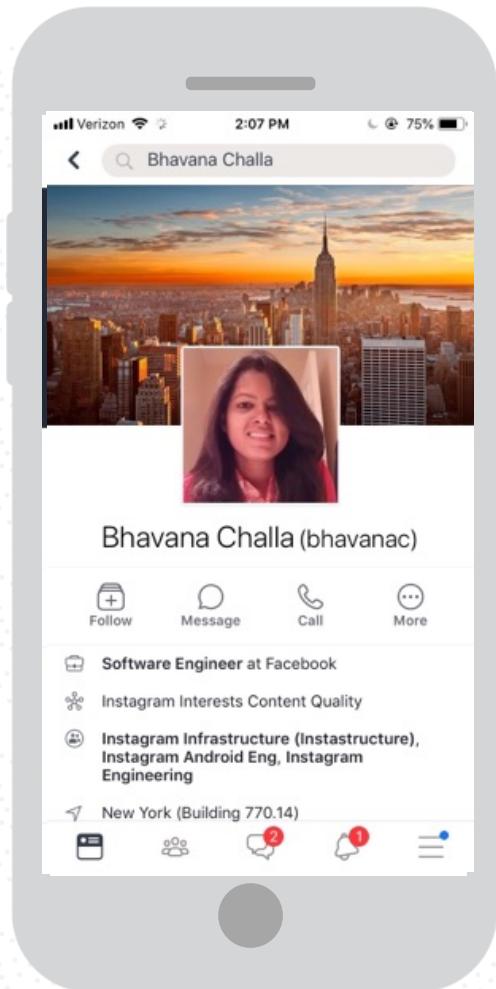
1. Make meaningful connections to peers to establish a safe and inclusive ABCS learning community
2. Get to know the ABCS team
3. Know what to expect from ABCS workshop series
4. Get to know what Facebook's technical interview
5. Build excitement, curiosity, and hunger to achieve personal goals this semester

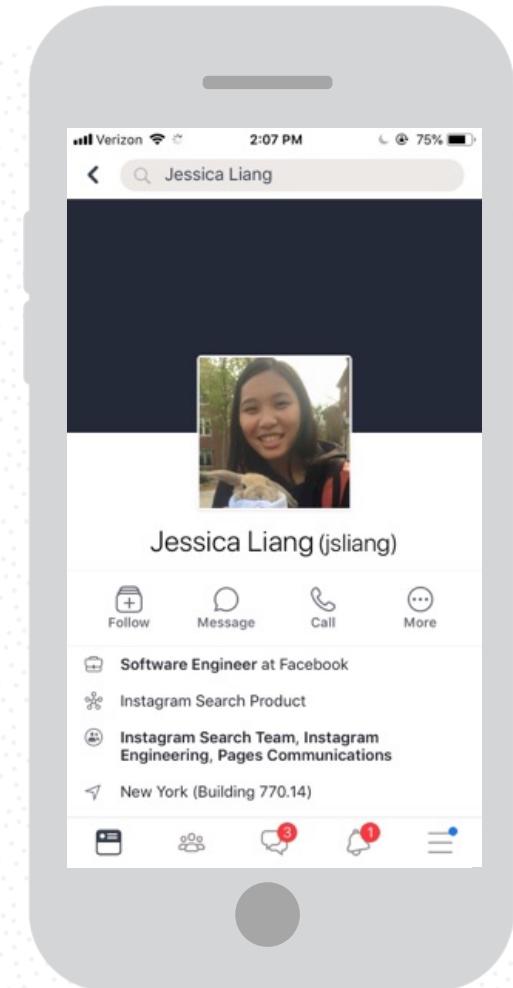
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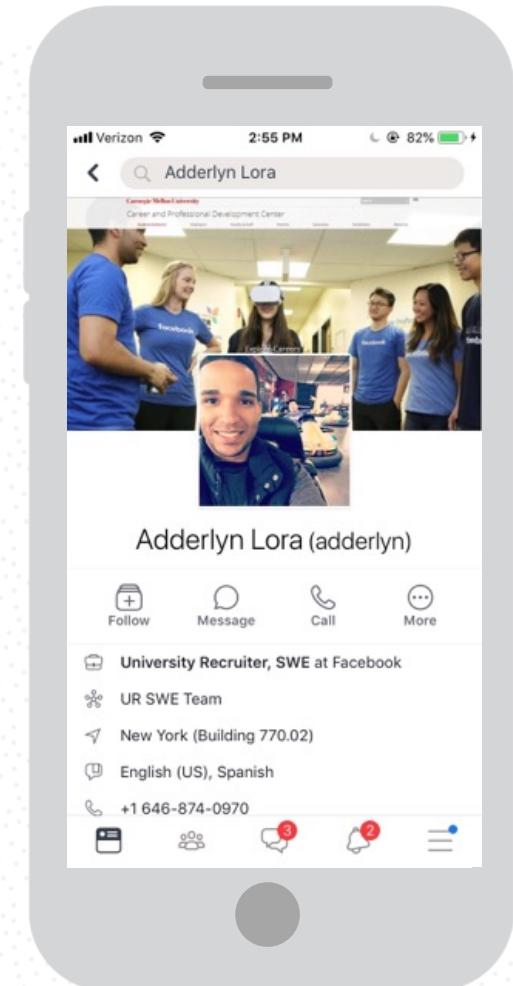
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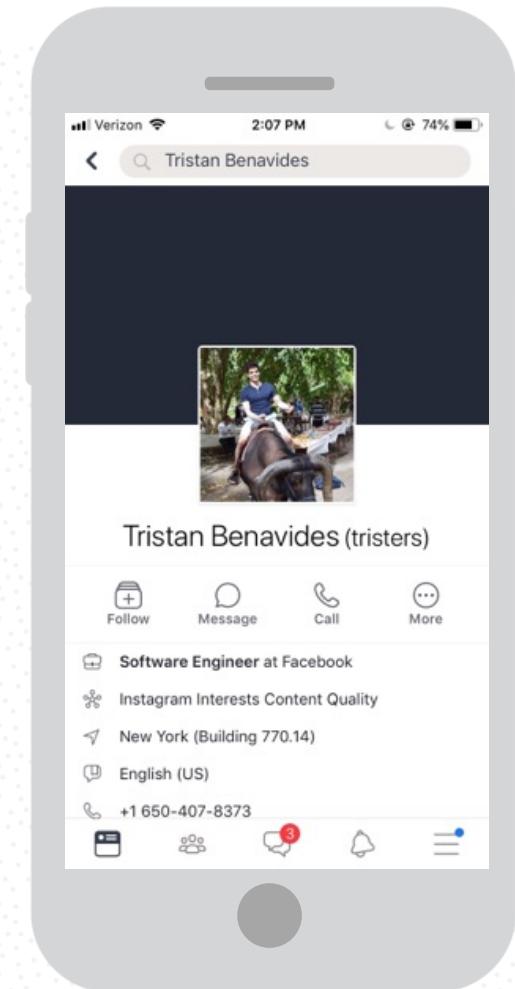
- 1) I lived in 3 different states the last 2 years
- 2) I met Mark Zuckerberg in person
- 3) I was an adjunct professor



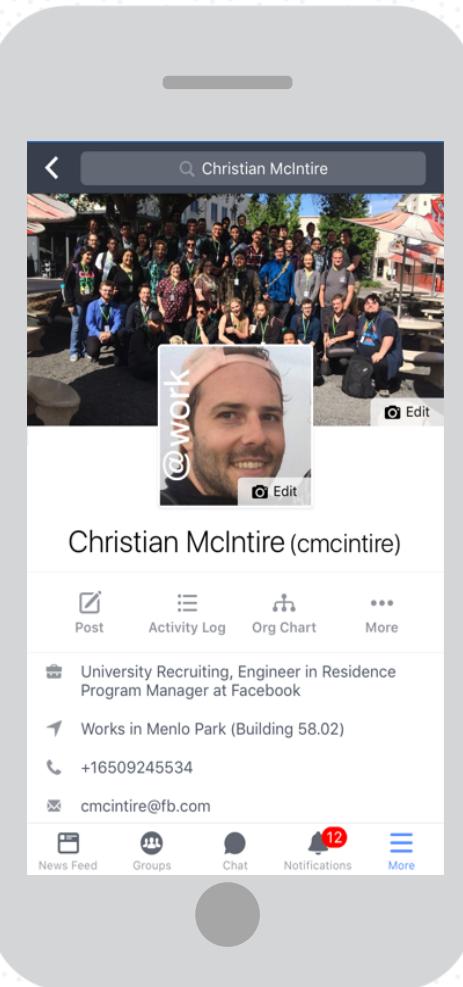




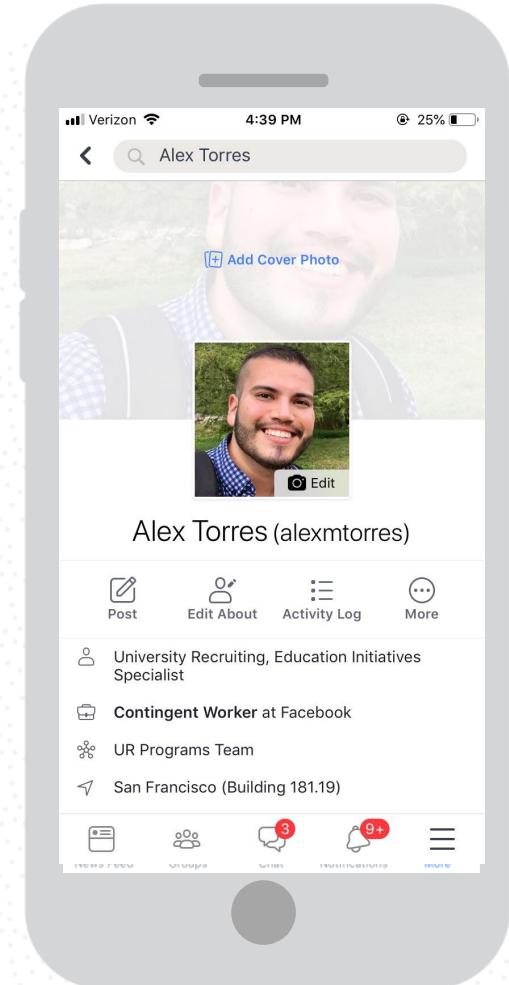




1. I won the age 12-14 group of the Monhegan Regatta (a sailing competition)
2. I've lived in 6 different cities after leaving home for college
3. I lost the engagement ring for my partner in the mail

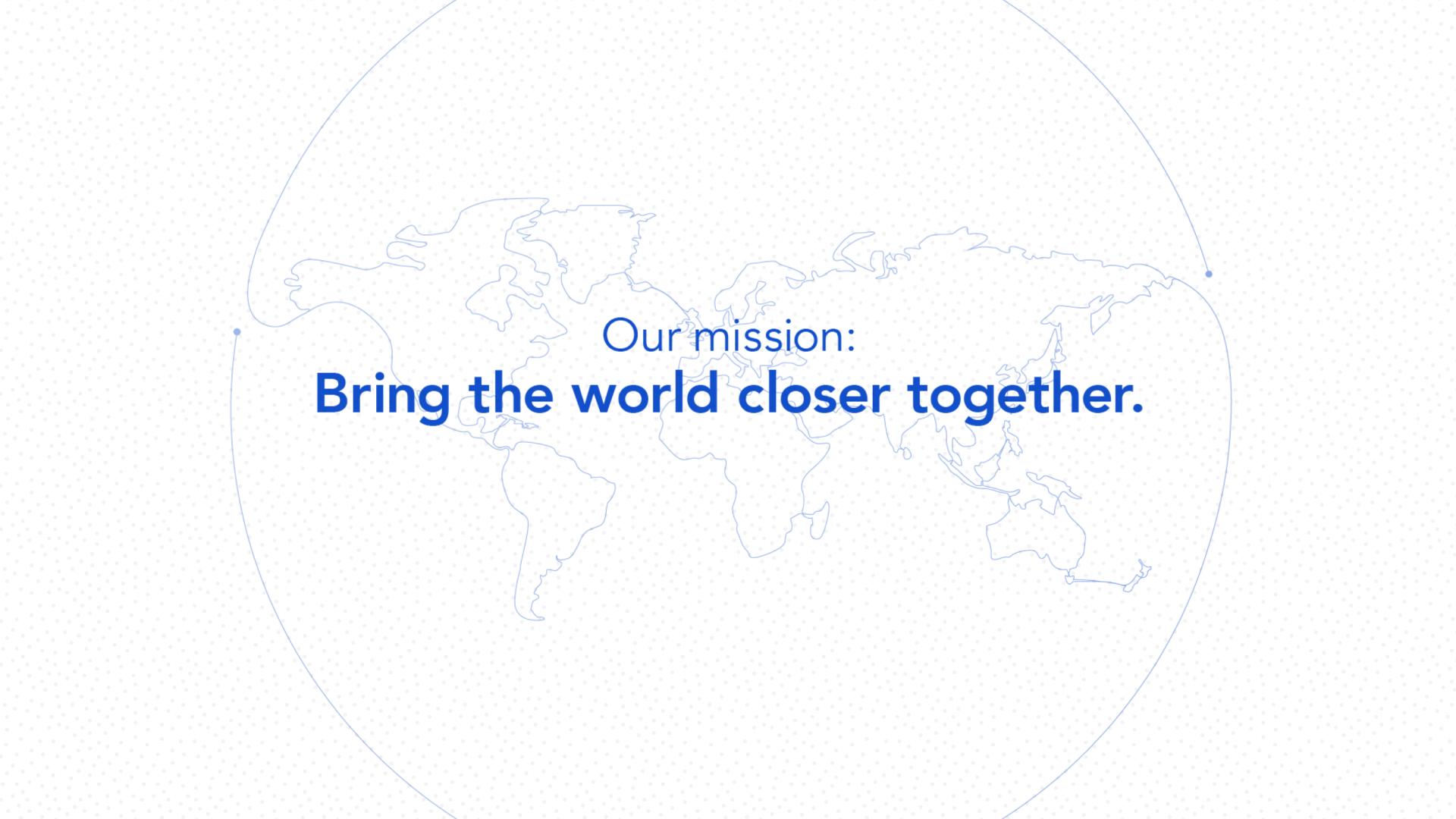


- 1) I was born in Mexico
- 2) I have two daughters
- 3) I used to be a teacher



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Our mission:
Bring the world closer together.

Building Community and Bringing the World Closer Together Takes Every One of Us

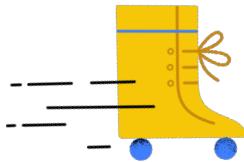


(dreamy music)

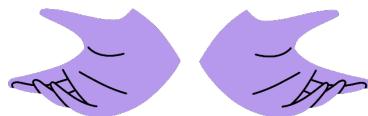


**BUILDING COMMUNITY:
People from all backgrounds rely on
Facebook to connect with others and we
better serve their needs with a more diverse
workforce too.**

Guided By Values



Move Fast



Be Open



Be Bold



Focus on Impact



Build Social Value



Facebook Family of Products

Connects over 2.5 Billion People



Facebook

2.3 Billion each month



Messenger

1.3 Billion each month



Instagram

1 Billion each month



WhatsApp

1.5 Billion each month



Oculus

Go, Quest and Rift S



oculus

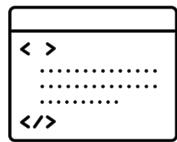




portal

from **facebook**

Role Categories



Software
Engineering



Data
Analytics



Product
Design



Business
& MBA



Security



Hardware



PhD



Product/Program
Management

A woman with dark hair, wearing a blue and white patterned dress, stands on the right side of the frame. She is smiling and looking towards the camera. Behind her is a large, vibrant mural featuring abstract, organic shapes in shades of yellow, orange, red, green, and blue against a dark background.

Social media's history is not yet written
Facebook is a place for big opportunities.

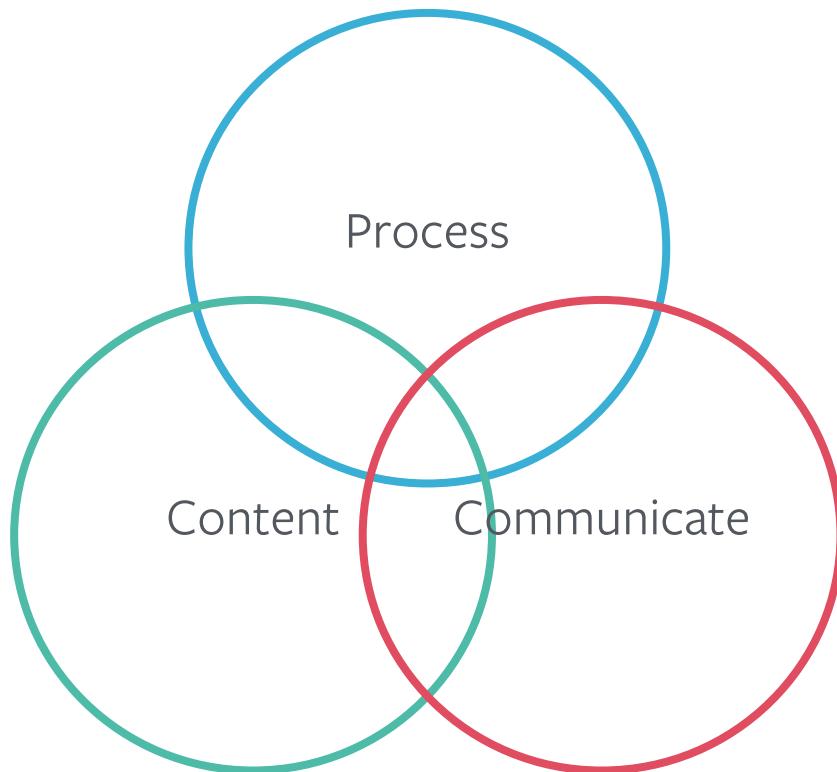


“Start from the assumption that there is ALWAYS a path and that it's your job to find it.”

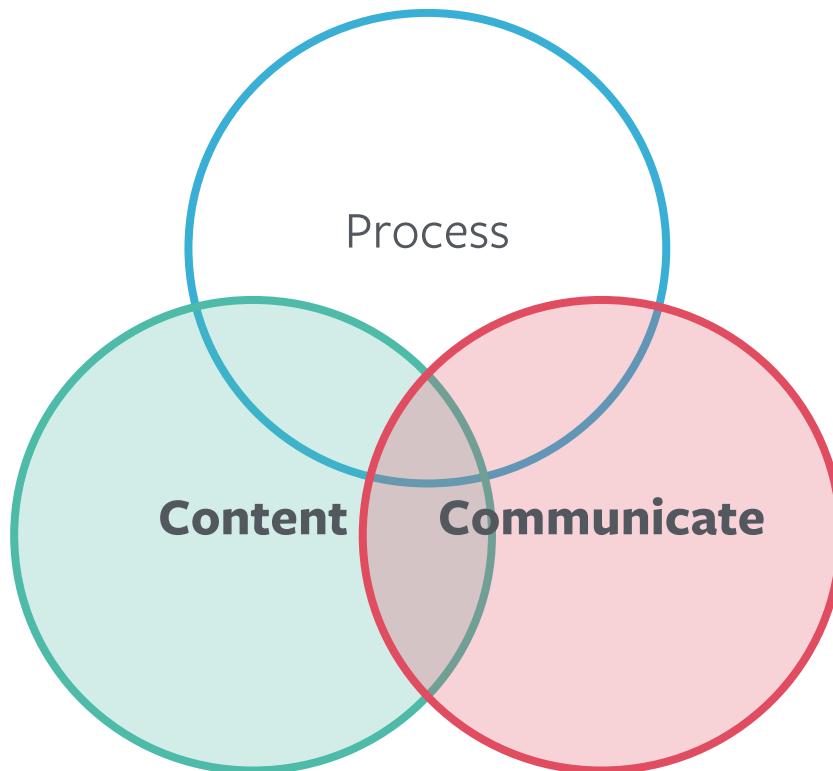
- Fidji Simo, VP Product Management and Head of Facebook App

That's why we need you.

The Technical Interview



The Technical Interview



Above & Beyond CS (ABCS)

Workshop Goals

- Master data structures and algorithms essential to technical interviews through [application](#)
- Practice interview [best practices](#) (e.g. skills, habits, and mindsets) to help you reflect your full potential
- Be empowered to drive your own learning outside of ABCS by taking advantage of [curated challenges and resources](#)

Above & Beyond CS (ABCS) – NYC

Workshop Calendar

09/04 – Kickoff

09/11 – Arrays & Strings

09/18 – Recursion

09/25 – Time Complexity

10/02 – Trees & Binary Search

10/09 – Linked Lists

10/16 – Stacks and Queues

10/23 – Heaps

10/30 – Hash Tables

11/06 – Graphs

11/13 – Choose Your Own Adventure +
Closing and Mock Interviews

Above & Beyond CS (ABCS)

Workshop Format

BEFORE

Allot 90 minutes to:

- ✓ Review workshop video/
screencast
- ✓ Review supplementary
resources (if necessary)
- ✓ Solve challenge questions in
HackerRank

Above & Beyond CS (ABCS)

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DURING

From 6:00-7:30pm you will:

- ✓ Recap solutions to assigned
problems
- ✓ Introduce and practice skills,
habits, and/or mindsets to ace
your technical interview
- ✓ Practice solving increasingly
challenging problems in a
mock interview setting
- ✓ Track your progress toward
content mastery

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AFTER

<variable>

- ✓ Complete any outstanding
challenge questions in
HackerRank
- ✓ Fulfill personal intentions to
meet your goals
- ✓ Complete mock interviews
with peers for whiteboard
practice
- ✓ Apply for internships!

These workshops are what you make them.

Above & Beyond CS (ABCS)

Our Expectations of You

- Attend at least 80% of all workshops
 - Communicate any planned absences in advance
- Complete the assigned pre-work by midnight before your workshop
- Come prepared to walk the class through your submitted code
- Don't be shy; ask a lot of questions!

Above & Beyond CS (ABCS)

Your Expectations of Us

- We will rotate facilitators to grow your professional network
- We will create a culture of challenge and support that is safe and inclusive for learning to occur
 - We will use different teaching methods for a variety of learning modalities
 - We will leverage individual and small-group instruction

Above & Beyond CS (ABCS)

What NOT to Expect

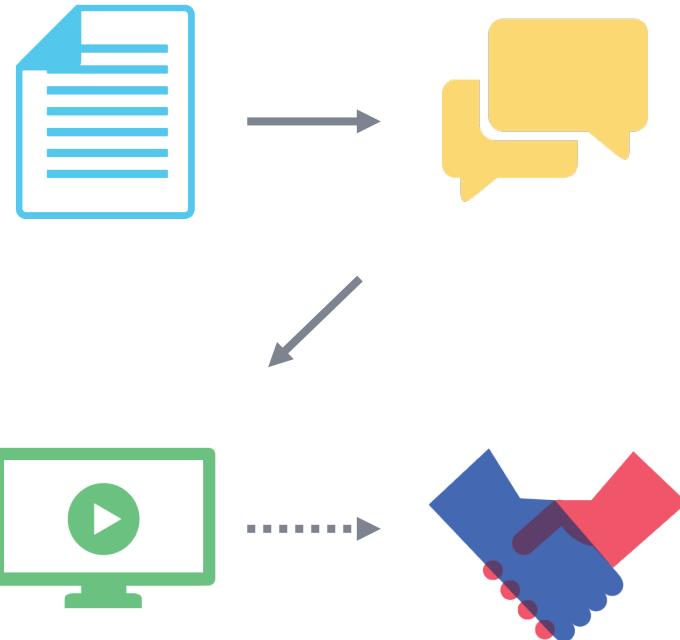
- “Insider” information
 - We will not reveal any Facebook technical interview questions
 - We will share tips and tricks that are widely applicable
- Unique access to opportunities
 - You will not receive special status when applying for opportunities at Facebook
 - You will not receive guaranteed or fast-track interviews

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Interview process

Step 1: Submit your resume at facebook.com/careers or send it to your recruiter.



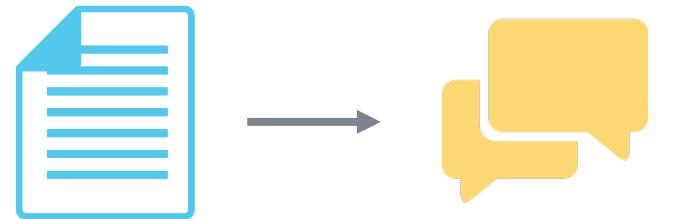
Step 2: Your resume will be reviewed and if selected, you will be contacted for an interview.

Step 3: Initial phone/Skype interviews

Step 4: In-person interviews

Interview process

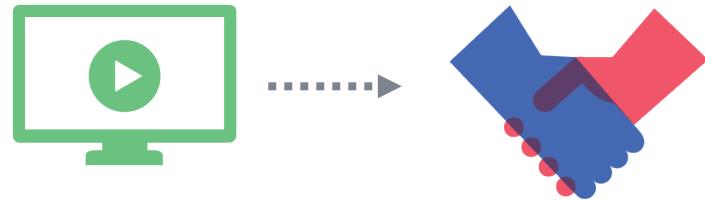
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Step 4: In-person interviews

The goal of a coding interview is to...

...get signal on things that we do at Facebook every day.

- How you think about and **tackle hard problems** and how you **communicate** about code.
 - Evaluate your problem-solving skills to see if you can translate thought into reasonably correct, well-structured code
- How you consider **engineering tradeoffs** (memory vs. time)
- **Limits** of what you know

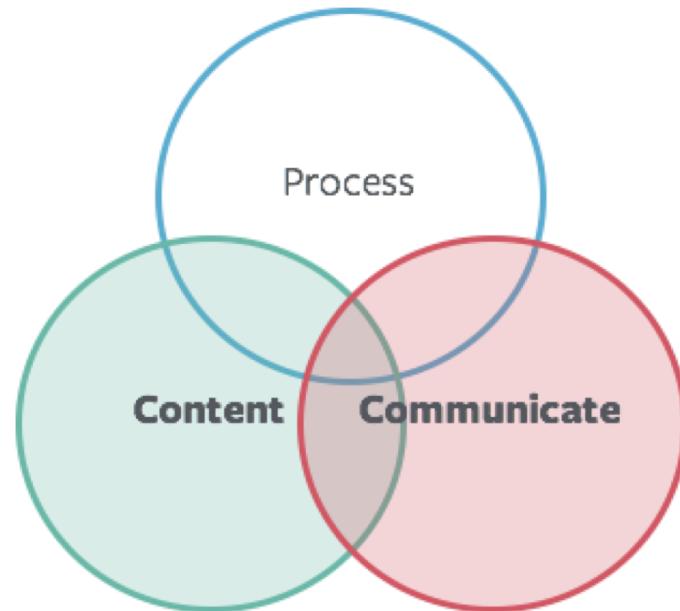
Format of the Technical Interview

...allocates the majority of time spent to complete coding questions.

- Intros to learn about your interviewer and your past experiences
- Coding
 - Don't worry if the interviewer stops you in the middle of a question
 - Questions might have follow-up components based on your implementation
 - Phone screens use a collaborative editor (but we don't run any code)
- Q&A

The Key to Being Successful

...is mastering the intersection of content knowledge and communication.



So where do I start?

KISS: Keep it simple, student!

- A foundation of data structures and algorithms
 - Implement, not memorize
 - Common library functions are fair game
- Specific questions about concepts are rare
 - Unless you claim to be an expert or need the concept

What tips do we have on deck for you?

It's both an art and a science!



...the first 5'

1. Communicate proactively
2. Design your algorithm
3. Work the clock



...the next 10'

4. Writing code at the whiteboard
5. Talk through your code / solution
6. Handling mistakes

What tips do we have on deck for you?

It's both an art and a science!



...the last 2-3'

- 7. Test your code
- 8. Ask questions
- 9. Increase your coding speed

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Set Personal Intentions

The Rules:

- Write one intention per Post-It for each area; add your name!
- Stick on aligned poster then walk the gallery

ACADEMIC

e.g. “I will improve my mastery of binary search trees to answer all ‘hard’ questions...”

PERSONAL

e.g. “I will build a personal network of 3-4 peers whom I can rely on for support...”

PROFESSIONAL

e.g. “I will identify THREE internships that I will apply for by December 1st, 2017...”

OTHER

?????

Administrivia

Before we continue...

- Search and join the “ABCS @FBNY Fall 2019” Facebook group
- Complete the ABCS pre-program survey (see Facebook group)
- Create a HackerRank account (if you don’t have one already)



Thank you!

Workshop 1

ABCS NYC 09/11
Optional Dinner 5:30
Workshop 6:00-7:30pm

Complete Pre-Work

- ✓ Review screencast
- ✓ Solve HackerRank problems
- ✓ Be prepared to walkthrough your submitted code