Coding Tests - Friend or Foe?

Agenda

Tech screening and things to think about

Types of assessments

Strategies for doing well

Strategies for evaluating

About me

Mark Kalal

Software Development / technology solutions

mdkalal@gmail.com, mark.kalal@wellsfargo.com

@MarkKalal

https://www.linkedin.com/in/markkalal/



i am not convinced tech interviews are broken

i am convinced that most interviewers are bad at it



...

Trek Glowacki @trek -



I've been twitter following the careers of people we interviewed but passed on at my last gig.

Turns out we were almost always wrong.



Trek Glowacki

@trek

... we had a group called "Bar Raisers" who mainly torpedoed candidates that lacked "CS Fundamentals". We passed on so many good people.



Max Howell @mxcl

Google: 90% of our engineers use the software you wrote (Homebrew), but you can't invert a binary tree on a whiteboard so f*** off.

Q 509

1 7.4K

♥ 11.7K

Tech screening is a must

Job descriptions

Art vs science

No false positive



The rockstar developer is a myth ...

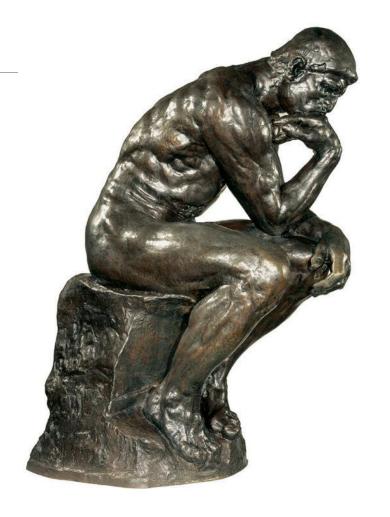
S. Hanselman

But what about ...

No silver bullet

Focus?

False negative



"

They just want to know if they can work with you.

11

M. Emo

It's an interview ...

EVERYTHING counts

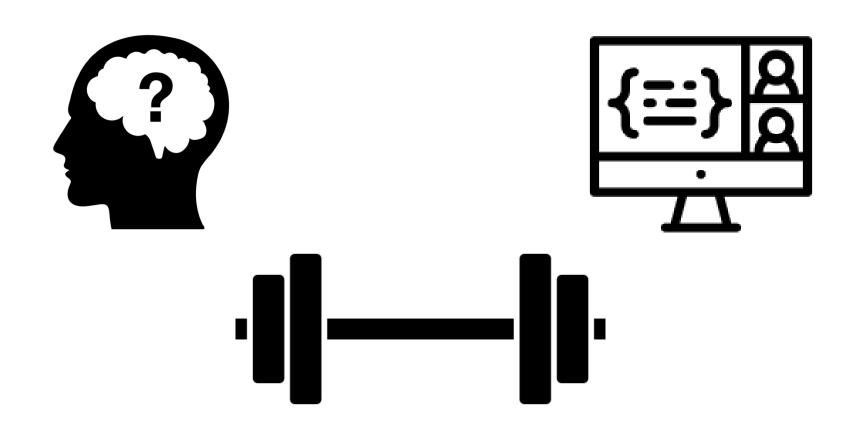
Expect "curve balls"

You never know!



"I have no doubt this is the best way to choose our new associate."

Quiz vs Exercise vs Live Session



"

Nothing is hard, just unfamiliar

11

A. Moore

Quiz

What is ... or Tell me about ...

Gauge some level of knowledge or experience



Coding Exercise

Can be taken as part of the application process

• Typically on your own – In office? Take home test?

Clear, direct questions – sometimes word problems

More of a task rather than an interview exercise

Can be recorded and/or timed



Live Session

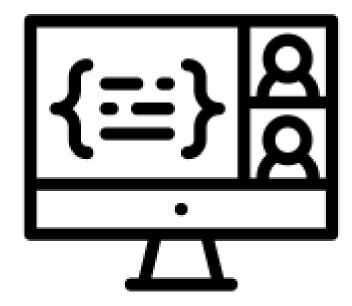
Typically open, vague questions

Meant for discussion/collaboration

Probably no absolute right or wrong answer, work to arrive at a solution/conclusion

Progressively challenging

It's about the journey, not the destination



Live Session - Framework

Goal is usually to work out a problem (teamwork)

- Don't jump straight into coding
- Three c's of teamwork Communicate, Collaborate, Cooperate

Understand problem (it may appear simple)

- Restate, ask for clarification
- Examples

Talk through your approach

Assumptions, gotchas, edge cases?

Decomposition – "rule of three"

Start simple, then detailed

Framework - cont

Don't work in silence

Write it down!

Manage your time

"Parking Lot"

Lost? Stuck?

- 3c's especially Communicate
- Restate, reclarify, ask questions are you missing something?
- Try variation
- Noodle or move on and come back

WHAT I SAY:

I'm a software developer

WHAT PEOPLE HEAR:

I can repair your computer, fix your internet, configure your printer, revive your phone, setup your email, build att billion dollar app, and hack into any system. For free. I am the IT god.

WHAT I MEAN:

I can search the web better than the average bear.

Strategies

Interview is not objective – EVERYTHING is part of the interview

 They're paying attention to the questions you ask – and also the ones you don't ask

Leetcode practice questions – developing "chops" by solving problems

Critical few > trivial many

Remote vs In person

Embrace the vague



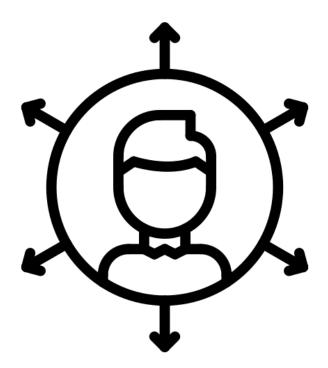
The Soft Skill

How you say is just as important as what you say

Remember 3 c's (Communicate, Collaborate, Cooperate)

More than code - Let them see "you"

We're not robots!



Evaluate

While you're interviewing them, they're interviewing YOU.

Want specific answer? Ask specific question

Broad vs job related topics

Accessibility

Adjust for different personalities

Do they "think like a developer"

Technical topics and teamwork related topics

What was the experience?



Conclusion

Final thoughts?

Questions?



Summary

- ✓ Tech screening and things to think about
- √ Types of assessments
- ✓ Strategies for doing well
- ✓ Strategies for evaluating

For more information

URList - https://www.theurlist.com/kalal-codetests

Technical interview questions - https://www.simplilearn.com/coding-interview-questions-article

Leetcode - https://leetcode.com/

This slide deck - https://github.com/mdkalal/CodeTestFoF

TECH Material

www.TechMasters-TC.com

Tuesdays, 7:45-9:00 am, Improving Enterprises, Bloomington

Thank you!

Feedback welcome

Mark Kalal - mdkalal@gmail.com

@MarkKalal

https://www.linkedin.com/in/markkalal/

