Mastering the Data Science Interview

Brendan Herger, https://www.hergertarian.com/

Slides: https://bit.ly/2JRWnKZ

IT WOULD START WITH FIVE MINUTES OF PEELING LINT FROM DRYER TRAPS FOLLOWED BY AN HOUR OF PRESSING A LIGHTSABER HANDLE AGAINST THINGS AND SWITCHING IT ON. THEN I'D RETIRE TO A LIFE OF LUXURY.

WHEN PEOPLE ASK ME TO DESCRIBE MY DREAM JOB, I'M NEVER SURE HOW REALISTIC TO BE.



Why
Process
Data science topics
Gaming the process

Why



Why

- Calibration: Some data scientists spend months or years preparing for interviews. You're competing with them.
- Familiarity: Writing code at a whiteboard is unusual. If you have to do it, you may as well do it well



Process

People

- First link
 - Sourcer: Working in bulk
 - · Referer: Your advocate
- Recruiter: Your advocate
- Interviewers: Limited time to evaluate you
- Hiring Manager: Stakeholder / decision maker

Steps

- Begin relationship: Refer / apply / source finds you
- Non-techncial screen: Culture fit / minimum skill set on paper
- Technical screen: Minimum skill set
- Take home / data challenge: Usually requires 5-10 hours
- Onsite: Culture fit, able to add value, able to collaborate
- Follow ups: Salary, manager, timing
- Offer: \$

Artifacts

- Resume
- LinkedIn
- Data challenge submission
- Internal packet / scores

Phone -> Phone -> Data Challenge -> On-site -> Offer



Data science topics

Common questions

- Data splits: Train / test, cross validation, stratification, sampling concerns, etc
- Regularization: L1 & L2, dropout, data augmentation
- Model validation: Metrics, SLAs, use cause, audience

Common interviews

- What would you do?: Given a data set, describe your modeling workflow
- Case study: Given model outputs, make a presentation
- Algorithm: Let's write KNN!
- Presentation: Present a project you've done



Gaming the process

CRACKING the CODING INTERVIEW

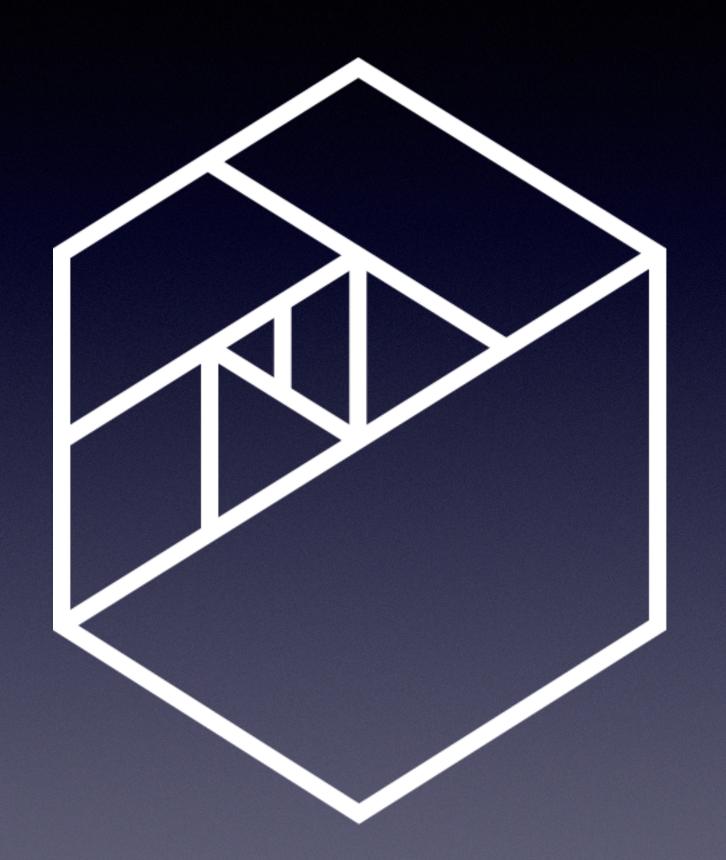
189 PROGRAMMING QUESTIONS & SOLUTIONS



GAYLE LAAKMANN MCDOWELL GTH EDITION

Author of Cracking the PM Interview and Cracking the Tech Career EDITION







Resume

- Optimize for each person (recruiter, interviewer, hiring manager)
- Optimize for 10 second read, 30 second read, 5 minute read
- Communicate your accomplishments clearly and succinctly
- Have someone look at your resume, and try to repeat is blind

LinkedIn

- See resume
- + Have a professional picture

Evaluation criteria

At all times, communicate:

- Technical skills: What can you bring to the table
- Interpersonal skills: Are you an enjoyable person to spend time with?
- Collaborative skills: Can you build things while working with other people?

Gotchas

- Don't lie: Unless you know that you won't get caught
- **Ego:** Some shops are looking for people with egos. Some people avoid the 'genius jerk' like the plague
- **Depth:** Understand that you will know some areas better than the interviewer (be humble), and that the interviewer will know many areas better than you (be interested and honest)
- Passion: Act like every job is your dream job. It might actually be.

Opportunities

- Work your network!
- Show passion for previous work
- Speak positively of everyone you've ever worked with
- Challenge the interviewer

LIFE SCORECARD

TIMES WHEN I THOUGHT...

"I'M NOT REALLY HAPPY HERE, BUT MAYBE THIS IS THE BEST I CAN EXPECT AND I'LL REGRET GIVING IT UP."

...ITTURNED OUT I...

SHOULD HAVE SHOULD HAVE LEFT SOONER

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Thanks!

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