
Preparing for the Technical Interview

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The Erdős Institute

Review

Technical Interviews

- Analogous to candidacy / qualifying exams
 - Usually several interviews
 - Takes several months to prepare. Don't underestimate this.
- Subject matter – depends on the particular job
 - Computer Science / Engineering
 - Machine Learning
 - Statistics / Probability
 - SQL / No-SQL Databases
- Interview types
 - White Boarding
 - Paired Coding
 - Demo Projects
 - Case Studies
 - Data Challenges

Case studies & data challenges

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Reading published case studies and taking notes helps!

Case Studies

- **EXAMPLE CASE STUDY** *from Data Skeptic*
- **EXAMPLE CASE STUDY** *from CarMax*

Data Challenges

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*Your Erdős project will be a close simulation to a Data Challenge
(except you won't choose the prompt or data!)*

How do I prepare?

Erdős Technical Interview Prep Structure

- [Course page](#)



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Technical Interview Prep Workshops

Fall 2023

Sep 6, 2023 - Dec 15, 2023

Application/Registration Deadlines

Sep 6, 2023 - Erdős Institute Members

Application/Registration Link

Withdraw

You are registered for this program.

Overview

Monthly workshops designed to help you understand the various types of data science roles and technical interview processes. Meets online on the first Wednesday of each month at 12pm ET.

Workshops are paired with weekly study groups and technical interview resources and practice problems to help you progress.

We strongly recommend giving yourself at least 3 months to prepare for technical interviews.

Summary of Monthly Topics

- Sept: Tech Interview Orientation

- Oct: White Boarding & Paired Coding

- Nov: Data Challenges & Case Studies

- Dec: FinTech Interviews



Schedule

Erdős Technical Interview Prep Structure

- Course page



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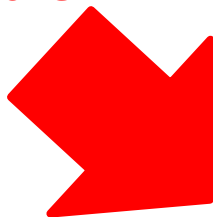
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Erdős Technical Interview Prep Structure

● Lectures

- Sept = Overview
- Oct = White Boarding / Paired Coding
- Nov = Data Challenges / Case Studies
- Dec = FinTech (*new!*)

● Homework

- Self-study

● Small Groups

- Practice interviews
- Resource sharing
- Social support

 The Erdős Institute

Technical Interview Preparation

Fall 2023 Schedule

To view any of the Erdős websites, you must be logged in to your [profile](#)

| | | |
|-----------------------|---------------------|--|
| Sept. 6 12–1 PM ET | Lecture 1 | Overview and Orientation Zoom link in your Erdős profile |
| Sept. 7 | Homework | Start Learning about Technical Interviews Ace the DS Interview: Introduction through Chapter 4 Erdős: Technical Interview Materials |
| Oct. 4 12–1 PM ET | Lecture 2 | White Boarding & Paired Coding Zoom link in your Erdős profile |
| Oct. 6 | Homework | Technical Interview Small Groups Sign Up Form is on your profile (or the tech interview course page) |
| Oct. 7–11 | Homework | Self study: Probability Ace the DS Interview: Chapter 5 Erdős: Technical Interview Resources |
| Oct. 11–13 | Small Groups | Practice Interview: White Boarding & Paired Coding – Probability Sign up on the Erdős calendar page |
| Oct. 14–18 | Homework | Self study: Statistics Ace the DS Interview: Chapter 6 Erdős: Technical Interview Resources |
| Oct. 18–20 | Small Groups | Practice Interview: White Boarding & Paired Coding – Statistics Sign up on the Erdős calendar page |

Small Groups / Practice Interviews

- Sign up for group meetings at your convenience at the Erdős [calendar page](#)



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Welcome to the Erdős Institute calendar & event page!

Here members can schedule study groups, meetups, and more.

Host an Event

Event Type *

- ✓ Boot Camp Study Group
- Technical Interview Study Group
- Behavioral Interview Study Group
- Other Study Group
- Meetup

In-person or On-line? *

Please choose one... ▼

Event Date *

09/06/2023 📅

Event Time (in ET) *

--:-- AM ⬇

this Saturday! I'll be wearing my Erdős Institute T-shirt so you should be able to spot me.

Submit Event

Homework for this month

- Group practice sessions
 - 1 white boarding
 - 1 case studies
 - 2 data challenges

| | | |
|----------------------|---------------------|---|
| Nov. 1 12–1 PM ET | Lecture 3 | Case Studies and Data Challenges Zoom link in your Erdős profile |
| Nov. 1–3 | Small Groups | Practice Interview: White Boarding & Paired Coding – SQL / D Sign up on the Erdős calendar page |
| Nov. 4–8 | Homework | Self study: Computer Science & Coding Ace the DS Interview: Chapter 9 Erdős: Technical Interview Resources |
| Nov. 8–10 | Small Groups | Practice Interview: White Boarding & Paired Coding – CS Sign up on the Erdős calendar page |
| Nov. 11–15 | Homework | Self study: Product & Business Logic Ace the DS Interview: Chapters 10 and 11 Erdős: Technical Interview Resources |
| Nov. 15–17 | Small Groups | Practice Interview: Case Studies: Product / Business Sign up on the Erdős calendar page |
| Nov. 18–24 | | Thanksgiving Break |
| Nov. 25–29 | Homework | Take home problem: Data Challenge 1 – Pump It Up Erdős: Technical Interview Resources |
| Nov. 29–Dec. 1 | Small Groups | Review: Discuss Data Challenge 1 with group Sign up on the Erdős calendar page |
| Dec. 2–6 | Homework | Take home problem: Data Challenge 2 – House Prices Erdős: Technical Interview Resources |
| Dec. 6 12–1 PM ET | Lecture 4 | FinTech Zoom link in your Erdős profile |

Coming up!

- December 6 is the last technical interview workshop, which will be led by Andrew McMillan, who is a hedge fund researcher
- This will be dedicated entirely to prepping for financial / quant research jobs
- He will provide 1(+) problem sets that you'll continue through December

Contact me on our Slack channel :)