

< Web Based Platform For Developers to Practice For The Coding Interview />

<name>
Sonjeet Paul
</name>
<student-no>
160248094
</student-no>

Introduction X

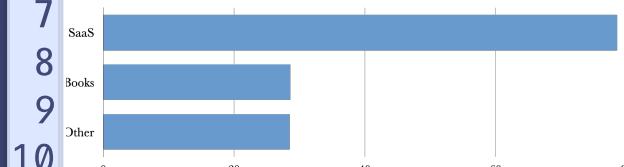
1 Coding Interviews require candidates to
2 solve a problem by writing code and then
3 optimising it with algorithms and data
4 structures. To perform well in these,
5 developers are having to purchase several
6 decoupled resources that will help with
7 some, but not all, of the following:
8 - Teaching algorithms & data structures
9 - Providing practice interview questions
10 - Providing an environment to write code

This is **not time efficient** or **cost effective**

Solution X

1 I have built a SaaS platform to teach the
2 core skills (algorithms & data structures)
3 along with providing an integrated coding
4 environment for developers to practice.
5 This is because online learning is the clear
6 favourite for developers:

7 Resources that developers use to practice coding interviews



12 Data collected from a survey I conducted
13 with 20 developers who have experienced a
real coding interview.

Aims & Objectives X

1 **Aim:** To build a web platform that helps
2 developers to familiarise themselves with
3 the core skills required to pass a coding
4 interview in addition to providing an
5 environment for them to practice solving
6 coding interview questions

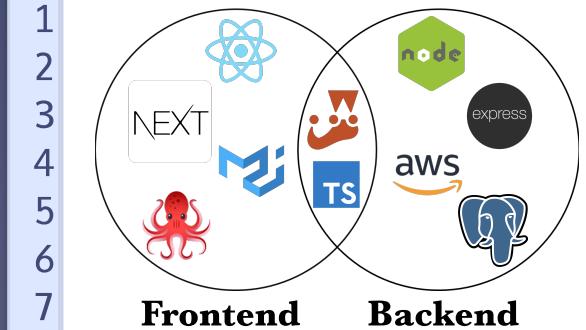
Objectives:

- 7 1. To understand what the best practices
8 are for building performant web apps
- 9 2. To research existing prep tools that
10 developers use to help form requirements
- 11 3. To create a curriculum for teaching
12 algorithms and data structures
- 13 4. To research concepts in server-side
14 development and implement a cloud
computing platform to help alleviate these
server-side concerns

Features X

- 1 - Curriculum to teach developers
2 algorithms and data structures
- 3 - Roster of coding interview questions
4 varying by difficulty for developers to
5 practice with
- 6 - An integrated coding environment built
7 into the web app that allows developers to
8 write, test and run their code

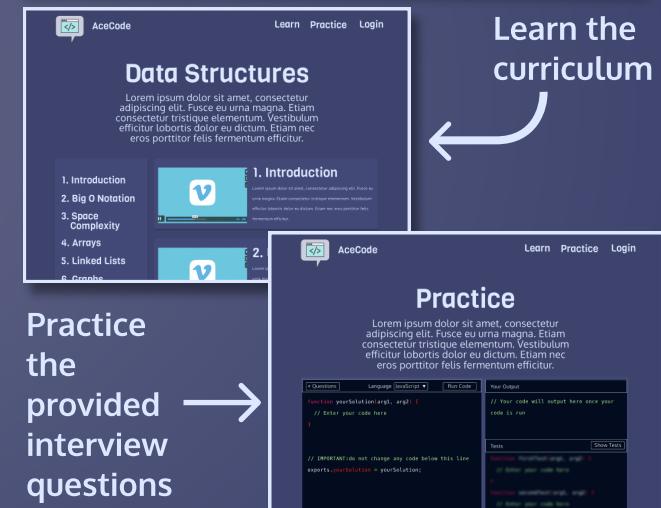
Technologies X



Frontend

Backend

Learn the
curriculum



The screenshot shows a navigation bar with 'AceCode' logo, 'Learn', 'Practice', and 'Login'. Below is a 'Data Structures' section with a brief description and a '1. Introduction' card featuring a video thumbnail. A large arrow points from the text 'Learn the curriculum' to this section. Below it is a 'Practice' section with a brief description and a '1. Questions' card showing a snippet of C# code. Another large arrow points from the text 'Practice the provided interview questions' to this section.

Future Work X

- 1 - Provide more coding interview questions
 - 2 - Currently we support JavaScript
3 programming, I intend to support other
4 popular languages (Python, Java, C#)
- Download poster and follow updates on the project**