

## New Curriculum Clarity

Hello Students,

This is Yashwardhan, Co-Founder and CEO at AccioJob.

Over the last 12 months, we've grown AccioJob from 1000 students training with us in 2019-2021 to more than 5000 students training with us in 2022.

Responsibility for us as AccioJob has also grown equally fast.

If you are Spiderman fans, "With great power/ growth comes great responsibility". And we take it with utmost sincerity and discipline to make sure we do justice to each and every student who has trusted us with their learning journey and their careers.

You must have witnessed some of what we have been constantly working on with feature updates we've been doing on the AccioJob learning platform, additions to learning material in the form of more assignments, a GYM section equipped with more questions than platforms like Codechef, Top quality Instructors, Constantly improving the batch management and personalised mock interviews and mentoring.

We have a strong curriculum team now with 30+ mentors and teachers working with us on it.

Modifications on how each and every day of each and every module should be delivered are done with student feedback, learning about student learning patterns and what has been the winning formula for students succeeding super fast in the course.

I'm penning down my thoughts on how we have been updating the curriculum structure from time to time and WHY we have been doing so. My goal is to educate each student about how they can plan their journey and to give them more visibility on what it will take for them to become placement ready as fast as possible.

Here is a major update to the curriculum we are making and Why?

**Learning 1:** Each student is different. Their learning pace is different. Their grasping power is different. Amount of effort they put in is also different.

**Learning 2:** Students want the pace of the program to be slow with adequate amount of problem solving.

**Learning 3:** Students want some self study time (or) what we called hiatus before ending the module or giving module tests / mock interviews.

**Learning 4:** Students want the course to be comprehensive and cover all topics, BUT also want to get placed as early as possible.

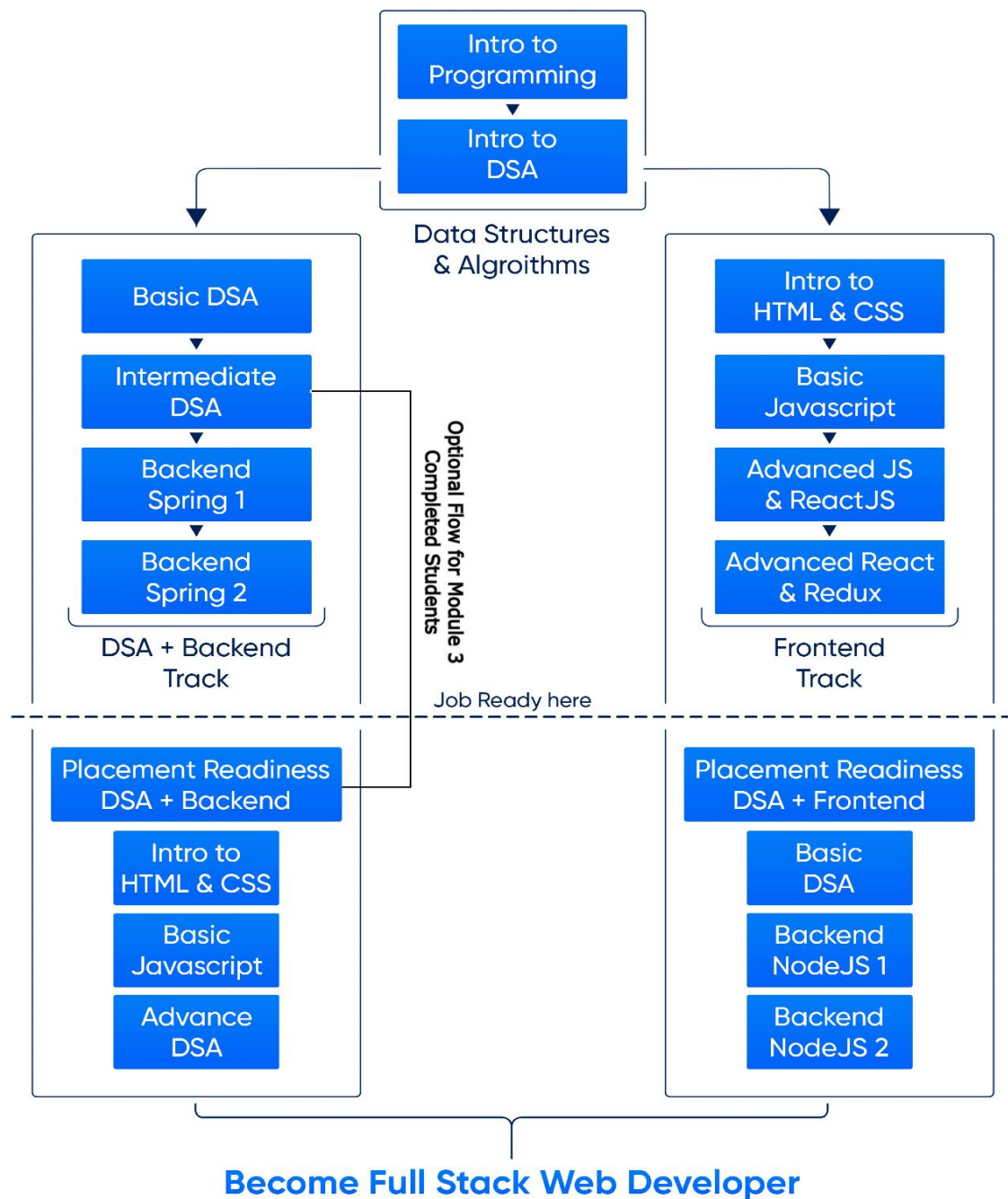
**Learning 5:** Student success is directly proportional to the efforts they put in, we have come out with a “Job Sincerity Score” for the student to see how he is doing on it.

**Learning 6:** In topics like Hashing, Recursion, Linked lists, binary search, Async JS, Context API, Redux students ask for more time to be spent on it because it is non intuitive to learn.

**Learning 7:** Web Development mastery is gained by building major projects. We have added multiple more project sessions with individual mentors for it. Students need hand holding with the first major project they are creating.

## Updated Curriculum

# Pioneer Track



**For detailed description, download the detailed curriculum from ([Here](#)).**

- Entire Full Stack Developer curriculum will be covered in 10 modules.
- The entire program will cover modules on DSA, Frontend and Backend.
- Students will complete 1 specialisation out of the two: DSA + Backend Specialisation OR Frontend Specialisation
- Students will be placement ready in 6 months with a strong foundation of programming + complete knowledge and preparedness to crack companies in either one of the specialisations they have completed.
- Post this, students will be sitting for placements and will meanwhile cover the modules of the other specialisation to become a Full Stack Developer.
- Data Structures and Algorithms which was earlier covered in 4 modules will now be covered in 5 modules based on the learnings that we acquired above from the students
- Frontend Curriculum which was previously covered in 3 modules has now been spread across 4 modules to accommodate for multiple project building sessions and DSA problem solving in JavaScript.
- Students in the Backend specialisation will study Springboot and those in Frontend specialisation will go through the Node JS modules

## **Job Sincerity Score**

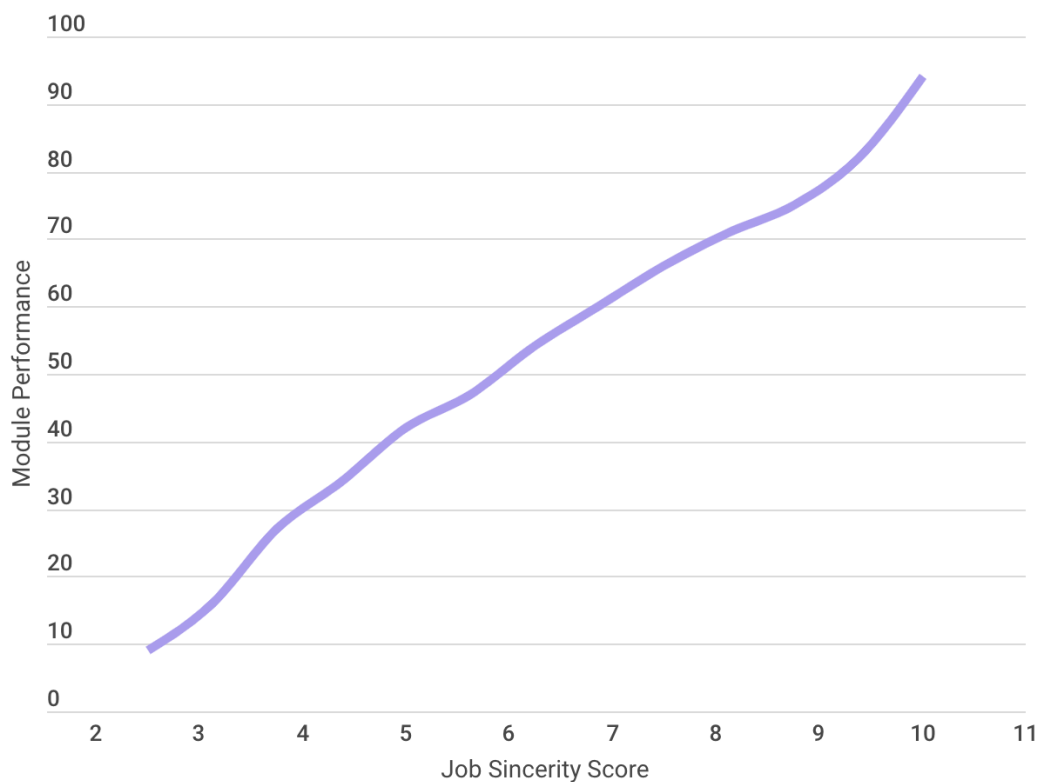
We as an organisation have been continuously putting in efforts and solving the problems to give the students a more holistic and personalised experience of our services.

We have formulated a score (Job Sincerity) through which we can help the students with different potential, cohesively improve their learning and skill.

Your Job Sincerity score has been calculated as a combination of Assignments solved, Gym Questions solved, Attendance.

We found out a 93% correlation for this weighted score with student's success in Module Tests, Mock Interviews and Placement drives.

# Job Sincerity vs Module Performance



## Formula to Success:

- Take this AccioJob Program with utmost sincerity and prioritise it above everything else for 6 months of your life.
- Make sure you are investing at least 7-8 hours of “Focused Effort”.
- Don't just attend lectures or watch recordings, make sure you are putting double the effort in solving more assignment questions and in building projects in Web Dev.
- Understand the placement tracks/ specialisations, figure out what is more suited for you, complete modules of that track to get to placement readiness as quickly as possible.

For DSA & Backend track:

- About 60% recruitment drives have DSA as one of the selection parameters.
- You need decent analytical skills/ aptitude.
- If you are able to do DSA problem solving in the initial modules, it is a no brainer for you to continue further with the DSA track.
- Solve as many assignments and gym questions as you can. DIRECTLY CORRELATED to your chances of success.

- Make sure you don't miss weekend contests and that you take multiple mock interviews till you score an above 8/10 marking. Mock interviews helps one to prepare for the company interviews which is why it is very important to continuously brush your company interview skills by giving multiple mocks till one is at a stage that they have the confidence to crack the final company interviews that you would be sitting for eventually

For Frontend track:

- In October 22 alone, AccioJob had 163 openings in Front end Development for our students.
- You need hands on project building and implementation practice.
- If you are NOT able to do DSA problem solving in the initial modules, you should move to the frontend track after the foundation modules to get to placement readiness ASAP.

Note: Make sure you give enough time and effort to DSA before making this decision. DSA is always tough to start with. My personal recommendation would be to keep a cutoff of at least 100 DSA questions to be solved before you learn if you can gain confidence in DSA or not.

- Make **PROJECTS**. For web development based hiring, this is the most important thing companies want to see.

Note: Quality of projects is more important than quantity. Making a major project and adding more and more components/ functionalities to it, will help you create this. You will have the interviewer's attention on this. Try to make an unconventional project idea, not the common clones only.

- Mocks are tools for you to understand where you stand in terms of placement readiness. Although the mock passing score is 6/10 but make sure you take multiple mock interviews till you score an above 8/10 marking in all modules to ensure that you are totally ready to face company interviews.
- Most importantly, SELF REFLECT. Identify your weak areas, communicate them with your Batch manager, take help from AccioJob and make sure you put your own effort to improve in those areas.

“ Success is not final, failure is not fatal: It is the courage to continue that counts. Persistence and determination alone are omnipotent. ”

## Placement Eligibilities

1. The eligibility criteria to apply will be as follows :
  - Students will be eligible through Acciojob on the basis of mock scores and resume. Which module's mock scores will be considered will depend on the company skill set requirement and job profile.
  - Mock score cut-off can vary from company to company based on the skill set required.
  - Eligibility criteria defined by the Company is completely subjective and varies from company to company. It can depend on your educational qualifications, test performance, demographic criteria and resume. Placement eligibility criteria for each company will be clearly displayed on placement portal.

## Placement Policy

1. After getting placed, the student can apply for another company only if the salary offered by the new company is more than the student's current offer by a difference of 4LPA.
2. The student is liable to accept the offer of placement given by the company once selected.
3. Once the student enters into interview process of any specific company, he / she cannot apply for any other company till,
  - a. It has been 10 days past the start of the interview round of the previous company.
  - b. The interview process of the previous company ends.
  - c. The interview process has been put on hold or marked inactive.

The student can apply for other companies if whichever of the above three happens first.

## Detailed Curriculum

Full Stack Developer with Frontend Specialization:

- Specialization Modules
  - DSA 1 - Intro to Programming
  - DSA 2 - Intro to DSA
  - Frontend 1 - Intro to HTML and CSS

- Frontend 2 - Basic JavaScript
- Frontend 3 - Advanced JavaScript and ReactJS
- Frontend 4 - Advanced ReactJS and Redux
- Non Specialization Modules
  - DSA 3 - Basic DSA
  - DSA 4 - Intermediate DSA
  - Backend NodeJS 1
  - Backend NodeJS 2

#### Full Stack Developer with Backend Specialization:

- Specialization Modules
  - DSA 1 - Intro to Programming
  - DSA 2 - Intro to DSA
  - DSA 3 - Basic DSA
  - DSA 4 - Intermediate DSA
  - Backend Spring 1
  - Backend Spring 2
- Non Specialization Modules
  - Placement Readiness (DSA + Backend)
  - DSA 5 - Advanced DSA
  - Frontend 1 - Intro to HTML and CSS
  - Frontend 2 - Basic JavaScript

#### Pioneer Course Overview

Our Pioneer course is designed specifically for the students who have cleared the Precourse so that they have a personalized learning experience.

We have two tracks namely,

- Full Stack Developer with Frontend Specialization
- Full Stack Developer with Backend Specialization

#### Full Stack Developer with Frontend Specialization



Front-end engineers are the bridge between technical and non-technical aspects of software development in the sense that most of the work that front-end developers do is user-facing.

As websites and apps are getting more and more complicated, front-end engineers are expected to handle a lot of data. In recent years, the demand for good front-end developers has only increased over-time.

So if you have an obsession with maximizing user experience and a perfectionist's attitude, front-end specialization is the path for you.

### **Full Stack Developer with Backend Specialization**

Backend engineers are responsible for designing, building, and maintaining the server-side of web applications. In other words, a backend engineer's primary responsibility is to build the structure of a software application.

The demand for DSA based backend roles has been ever increasing in the last few decades and is only expected to grow exponentially in the coming future as well. If you love problem solving and the idea of making impactful software based on algorithms excites you then this is the learning track for you.

### **Module Wise Breakup**

Each module will span for a month with the following learning aids:

- Lectures - Live classes on weekdays covering all topics in a module with our top instructors. Every lecture will have associated assignments for you to apply what you have learned
- Contests - Weekly weekend contests for the purpose of application of the concepts learned in the lectures
- Mocks - 1-on-1 interviews with mentors to prepare yourself for the company interviews in the placement readiness modules

**It is mandatory for the students to at least attempt one module mock in a month and if not so students will have to repeat the particular module**

- Study Break - A break at the last week of the month to focus on self-learning and identify weak areas and work upon them
- Module Test - Coding test at the end of the modules for the application of concepts learned in the module

## **DSA Modules**

### **DSA 1 - Intro to Programming**

#### **Curriculum:**

- Week 1 - Basics, Arrays and Functions
- Week 2 - Time & Space Complexity, 2D arrays, Array list and Switch Case
- Week 3 - Strings, Sorting (Bubble, Selection, and Insertion), String builder and Buffer reader
- Week 4 - Module Problem Solving Sessions

### **DSA 2 - Intro to DSA**

#### **Prerequisite:**

- **DSA 1 Test Clearance**

#### **Curriculum:**

- Week 1 - Recursion, Merge and Quick-sort
- Week 2 - Object Oriented Programming (OOPs )
- Week 3 - OOPs and Linked Lists
- Week 4 - Module Problem Solving Sessions

### **DSA 3 - Basic DSA**

#### **Prerequisite:**

- **DSA 2 Test Clearance**

#### **Curriculum:**

- Week 1 - Stack and Queues
- Week 2 - Hashing and Binary Search
- Week 3 - Binary Search and Binary Trees
- Week 4 - Module Problem Solving Sessions

### **DSA 4 - Intermediate DSA**

#### **Prerequisite:**

- **DSA 3 Test Clearance**

**Curriculum:**

- Week 1- Binary Search Trees (BST), Prefix Sum
- Week 2- Sliding Window, 2-Pointers, Bit Manipulations
- Week 3- Graphs
- Week 4- Module Problem Solving Sessions

**DSA 5 - Advanced DSA****Prerequisite:**

- **DSA 4 Test Clearance + DSA 4 Mock Score**

**Curriculum:**

- Week 1 - Heaps, Intro to Backtracking
- Week 2 - Backtracking & Dynamic Programming (DP)
- Week 3 - DP
- Week 4 - Module Problem Solving Sessions

**Placement Readiness (DSA + Backend Specialisation)****Prerequisites:**

- DSA 4 Test Clearance
- DSA 1 Mock Clearance
- DSA 2 Mock Clearance
- DSA 3 Mock Clearance
- DSA 4 Mock Clearance

**Curriculum:**

- Week 1 - Resume and Minor Project Building, SQL
- Week 2 - Major Project Building, Kanade's Algorithm, Sorting, Aptitude
- Week 3 - Placement readiness Mixed Topic Questions
- Week 4 - Placement readiness Mixed Topic Questions

**Frontend 1 - Intro to HTML and CSS****Prerequisite:**

- DSA 1 Test Clearance

**Curriculum:**

- Week 1 - Introduction to Web, HTML, Element Structure, Common Tags, CSS Fundamentals
- Week 2 - Box Model, HTML Forms, Typography, Positioning, Grid Layout, Bootstrap
- Week 3 - Bootstrap, Intro to JS, JS control flow, JS Operators

- Week 4 - JS Hoisting, JS Strings

## **Frontend 2 - Basic JavaScript**

### **Prerequisites:**

- Frontend 1 Test Clearance

### **Curriculum:**

- Week 1 - JS Array and Array methods, JS Events, Event Handlers, DOM, DOM-2
- Week 2 - All Event Handlers, JS Methods, JSON, JS Events and Objects
- Week 3 - JS Object - 3, Functions Deep Dive, JS Prototypes, Prototype Inheritance, DOM all methods
- Week 4 - Operators, Intro to ES6, Deep dive to ES6

## **Frontend 3 - Advanced JavaScript and ReactJS**

### **Prerequisites:**

- Frontend 2 Test Clearance

### **Curriculum:**

- Week 1 - Asynchronous JS, Call Back and promises, Call stack, Task Queue, Event, Loop, Validations, Async Await, Async Functions
- Week 2 - React Setup and Intro, React Basics, React more basics, React State, React Events and Forms
- Week 3 - More Forms, Lists and Conditional Rendering, React Handling, Working with APIs, useReducer Hook
- Week 4 - Context API, Advanced React

## **Frontend 4 - Advanced ReactJS and Redux**

### **Prerequisites:**

- Frontend 3 Test Clearance

### **Curriculum:**

- Week 1 - React Optimization, Class Based Components, React Router, Auth and deployment, Core concepts in Redux
- Week 2 - Core Redux API, Connect to React with React Redux, Refactoring with Redux Toolkit, React Router
- Week 3 - Lifting State Up, React Composition Model, Redux API, React - Redux
- Week 4 - React - Redux, React - Redux using Hooks

## **Placement Readiness (DSA + Frontend Specialisation)**

### **Prerequisites:**

- Frontend 4 Test Clearance
- Frontend 1 Mock Clearance
- Frontend 2 Mock Clearance
- Frontend 3 Mock Clearance
- Frontend 4 Mock Clearance

### **Curriculum:**

- Week 1 - Resume building
- Week 2 - Week 4 - Major Project Building sessions

## **Backend Spring 1**

### **Prerequisites:**

- DSA 1 Mock Clearance
- DSA 2 Mock Clearance
- DSA 3 Mock Clearance

### **Curriculum:**

- Week 1 - Java advance OOPs concepts (Detailed interfaces, abstraction, association, aggregation and composition), Java oops based applications (bank application, song playlist system), Basic Git and github
- Week 2 - Exception Handling, Multithreading, Collections Framework
- Week 3 - Introduction to Web services, Spring Framework and Spring Boot
- Week 4 - Restful APIs, Intro to MySQL, JDBC (Java Database Connectivity), Developing basic APIs with different layers

## **Backend Spring 2**

### **Prerequisites:**

- Backend Spring 1 Test Clearance

### **Curriculum:**

- Week 1 - Major Capstone Project 1, Design of databases and Building the repository layer and the entities

- Week 2 - Controller layers and Service Layers and Data Transfer Object (DTOs)
- Week 3 - Redis and Kafka with Spring Boot
- Week 4 - Major Capstone Project 2

## **Backend NodeJS 1**

### **Prerequisites:**

- Frontend 3 - Advanced JS & React Mock clearance

### **Curriculum:**

- Week 1 - Node and Express - Backend System, WebAPIs, node async behaviour
- Week 2 - Status codes, creating REST APIs, request methods, using Postman
- Week 3 - Introduction to MongoDB, creating schemas, connecting backends with DB
- Week 4 - Normalisation, Joins, Indexing, pagination, aggregation

## **Backend NodeJS 2**

### **Prerequisites:**

- Backend NodeJS 1 Test Clearance

### **Curriculum:**

- Week 1 - Intro to FS module, and intro to middlewares.
- Week 2 - Authentication and deployments.
- Week 3 - Backend Project building.
- Week 4 - Backend Project building continues.

Hope you have a great learning experience with us!

Thanks

Yashwardhan Burad