

Backend Development Test

The coming decade is one of immense opportunity for India with a majority of our population under the age of 35 and the growing proliferation of global technology.

For a long time, India was known as the land of outsourced opportunities. The past decade however has shown that Indians can build global products and businesses. This is expected to grow manifold in the coming years provided we solve for one crucial element - skilled talent.

Today, there is a massive divide between aspirants looking for the right opportunities on one side, and companies vying for the best talent on the other. Historically exposure to opportunities has been defined by one's college, degree, or who they already knew in the industry. The events over the last year have only made the situation worse.

We believe it is high time that this changes for good! We believe that hiring should depend only on your capabilities and skills, not your college degree.

Being India's Largest Learning Platform, democratizing knowledge and access is a core tenet of the Unacademy Group. We are now extending that to opportunities through Relevel by leveling the playing field for millions of Indians. We imagine a future where candidates have a transparent path to the career of their dreams.

At Relevel, we believe your history doesn't matter. Your skills do. Your network doesn't matter. You do!

All the best. We know you can crack it!



What do I need to do?

The Backend Development test consists of a series of **5 rounds**, conducted on a single day. Candidates are expected to participate in all **5 rounds** and are assigned a Relevel Score based on their performance.

Achieve a great Relevel score and be prepared to receive offers from multiple companies. **Here's how it works:**

	Rounds 1 & 2	8:30 AM - 11:30 AM
	<ul style="list-style-type: none">• Back to Basics• Assess your Algo	
	Rounds 3 & 4	1:00 PM - 5 PM
	<ul style="list-style-type: none">• Create your Feature• Optimize your Feature	
	Round 5	5:00 PM Onwards
	<ul style="list-style-type: none">• Face the Interview	
	Result Declaration	24 hrs after the test
	Company Placements	Continuous

Is this for me?

You would be interested in this if you are looking to kickstart your career in **Backend Development** and you

Have under 3 years of experience

Are actively looking for your first or next job

Are available to join the job within 30 days of the offer

How do I apply?

You can now register and take the test in three simple steps



Login to relevel.com



Complete registration by paying **INR 1999/-**



Book your slot and choose the day you wish to take the exam

Back to Basics



Duration: 45 min

| Max Marks - 150

This round consists of 35 questions wherein the candidate is tested on the soundness of their knowledge of computer science fundamentals. The candidate can expect questions around the core concepts of computer science like computer networks, operating systems, basic programming, databases etc.

Assess your Algo



Duration: 1.5 hrs

| Max Marks - 200

In this round, the candidate is expected to answer 3 coding questions that test their problem-solving skills and algorithmic thinking.

The candidates are required to code in the provided Integrated Development Environment (IDE) and solve the coding challenges within the time provided.

Create your Feature



Duration: 2 hrs

| Max Marks - 200

In this round, the candidate is required to code and develop the backend of a web application (using either NodeJS or Python/Django or Java/Spring frameworks). The candidate will be provided with the problem statement and user stories (instructions on what features of the app need to be built) along with a boilerplate code template.

Within 2 hours, the candidate is expected to build the solution and also provide a screen recording explaining the code and functionality of the application he/she has developed.

Optimize your feature

⌚ Duration: 1.5 hrs

Max Marks - 150

In this round, the candidate is asked to extend the functionality of the app built in the previous round by either expanding the scope of the feature or adding new functionality to a section of the app.

In this round also, the candidate is expected to submit the solution and provide a screen recording explaining what they have done.

Face the Interview

⌚ Duration: 1 hr

Max Marks - 300

In this 45 min - 1 hr interview, a senior Backend Leader will test the candidate's ability to build products and work well with product teams in an organization. The candidate will be grilled on their fundamentals in algorithms along with concepts in object oriented programming and the backend development framework like NodeJS, Java/Spring or Python/Django.

The candidate might also be interviewed on the projects they mention on the resume and asked to solve problems live through screen sharing.

How am I shortlisted?

The final Relevel score is calculated by combining the scores obtained across all the rounds:

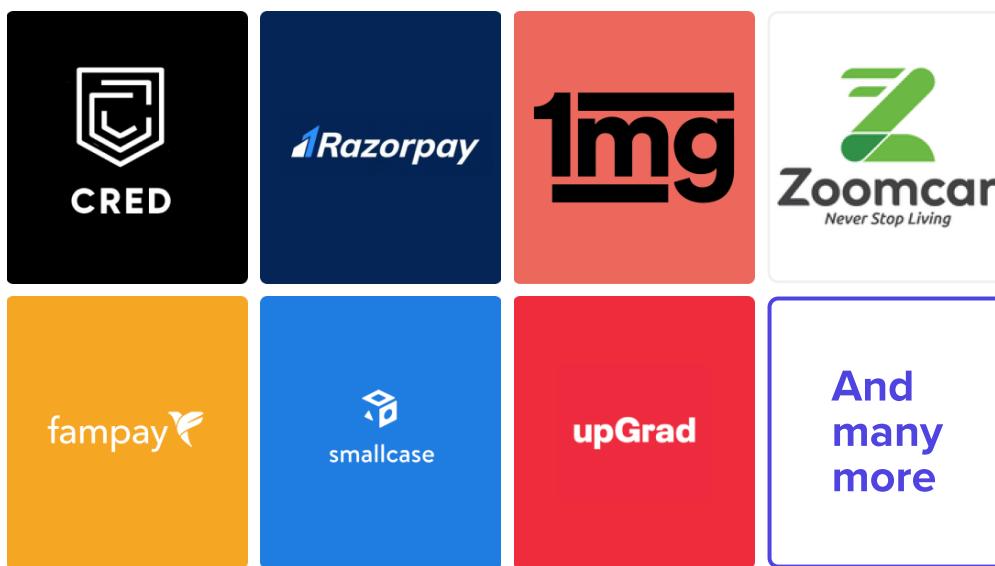
$$R \text{ score} = 0.1C_1 + 0.1C_2 + 0.2C_3 + 0.3C_4 + 0.3C_5$$

Where C_1, C_2, C_3, C_4 and C_5 are the normalized scores in the different rounds.

Candidates are offered interviews by different companies based on the Relevel score obtained.

Which Companies will I be hired at?

We have close to **350+ jobs with CTC's upto 15 LPA** that are waiting for you





What does my result look like?

Each round is used to assess key competencies needed to perform in a Backend Development role. All candidates who clear the test will receive a personalised profile as shown below:

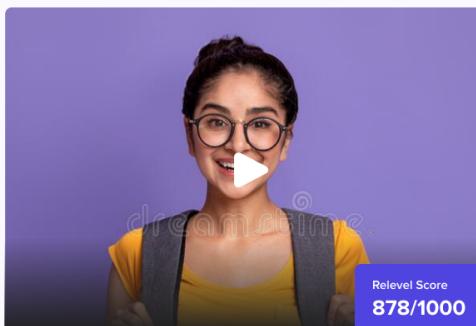
Relevel
by Unacademy

About me Relevel Score My Skills Projects Experiences Education

Backend Developer [Can join immediately](#)

I am Nushrat Khan from Mumbai

You should hire me because I am really good in solving complex algorithms. I have 200 repositories on Github.



Relevel Score
878/1000

[Schedule an Interview](#)

Relevel
by Unacademy

About me **Relevel Score** My Skills Projects Experiences Education

My Relevel Score **878/1000**

What is a Relevel Score?

Lorem Ipsum is simply dummy text of the printing and typesetting industry.

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220/240 Programming Fundamentals Average score: 220	180/200 DSA Average score: 160	150/180 App quality Average score: 140	170/195 Code quality Average score: 165
70/75 Code maintenance Average score: 72	48/50 Communication Average score: 43	40/60 Soft Skills Average score: 50	



Syllabus

Computer Science Fundamentals

1. Basics of Programming - Loops, Conditionals, Functions, Recursion.
2. Time and Space Complexity.
3. Searching and Sorting - Linear Search, Binary Search, Quick Sort, Radix Sort, Merge Sort, Insertion Sort etc.
4. Basic Data Structures - Array, Linked List, Stack, Queues. Advanced Data Structures - Trees, Heaps and Graphs.
5. Object Oriented Programming - Inheritance, Polymorphism
6. Computer Networks, Database Management, Operating Systems

Suggested Reading Materials

1. [Database System Concepts](#)
2. [Introduction to Algorithms](#)
3. [Operating Systems](#)
4. [Computer Networks](#)

Backend Web Development

1. Javascript - Express. Node.js (or) Java - Spring MVC (or) Python - Django
2. MongoDB, SQL
3. Rest APIs, System Design

Suggested Reading Materials

- [Backend Web Development](#)

Can all this happen in one week?

Apply now and
find out for yourself

www.relevel.com
