



Job Specification Form			
Unique Job Role	Software Engineer	Reporting To (Position):	TL/EM
Business Unit:	Bus India	Role Purpose:	Development
Job Location:	Bangalore	Team Size	
<b>About RedBus:</b>			
<p>redBus.in is India's largest online bus ticketing platform operating across India, SEA &amp; LATAM (Part of GO-MMT group, Nasdaq: MMYT). We have the largest network of bus operators and satisfied customers booking up to 250,000 transactions a day through mobile and desktop channels. With over 150,000+ live routes on multiple continents, we host the largest inventory of bus seats from private bus operators and state road transport corporations. We are a true Indian MNC with a global presence and operations across India, Singapore, Malaysia, Indonesia, Peru, and Colombia. In India, redBus works with 3000 + bus operators with services across 50,000 + routes and a customer base of more than 50 lakhs.</p> <p>redBus at its heart is about people. As the pioneer in our space, we are passionate about creating amazing experiences for passengers, partners, and our people. Energized by a great work environment, where talent is nurtured, innovation is celebrated and challenges are conquered, we journey towards creating fulfilling moments for everyone whose lives we touch. Always strike a balance between getting the job done, while also having fun along the way. So here is to be a Great Place to Work!</p> <p>At redBus our work fundamentally transforms the way people experience road journeys. Our focus has remained to make road transport more efficient and reliable through technology innovation and winning partnerships with all ecosystem players thereby delivering solutions that truly enrich the lives of our customers and partners. When it comes to intercity travel by road, we are the most important, the most valuable, and the most celebrated business in India with millions of customers and thousands of business owners counting on us. It is a privilege to work on extending this globally by making our products work in other markets and impact even more people. Today, as we think beyond bus journeys we are guided by our vision to be innovative and stay true to our heritage of creating value for all players by targeting unsolved problems.</p> <p>To know about us follow us on <b>LinkedIn</b>(<a href="https://www.linkedin.com/company/935776/">https://www.linkedin.com/company/935776/</a>) or visit our <b>redBus career page</b> (<a href="https://www.redbus.in/careers/">https://www.redbus.in/careers/</a>)</p>			
<b>Key Responsibilities:</b>			
<b><u>JOB PURPOSE:</u></b>			
<ul style="list-style-type: none"> <li>Working for Full time as a Software Developer/Engineer</li> <li>Involved in all phases of product development right from:</li> <li>understanding of the business impact</li> <li>requirement gathering</li> <li>design discussion</li> <li>development</li> <li>production deployment</li> </ul>			
<b>Educational Qualification:</b>		BTech – (CS, IT, EE, E&CE, IS, Mechanical)	
<b>Preferred Experience (Minimum &amp; Maximum):</b>		Minimum of 60% throughout their academics	
<b>Key skills required for the role:</b>			

- Good knowledge of OOPS Concepts, Data structure, and Algorithms
- Good Knowledge of at least IT Technology/language. (Ex: Java, PHP, Android, iOS, Python, Go, etc.)
- Hand-on on Software Development Life Cycle of the ring training period
- Willing to work in a fast-paced environment and ambiguity to come up with innovative solutions to real-time problems

## My interview experience:

### Round 1: Aptitude and Coding Test

It was conducted on the Hacker Earth platform. It has some quantitative MCQ questions. Some verbal ability questions. Then some technical aptitude questions from C/C++, Java, DBMS, OOPS, CN, etc. Next, it had 3 coding questions which were a little hard to solve. I was able to solve one of the three coding questions and I got selected for the next round. Even though the coding questions were hard if you have strong knowledge of DSA you will be able to solve those questions.

### Round 2: Online Technical Interview

This was an online technical interview. In this round, the interviewer started by asking me to tell him about myself, and in various situations whatever you answer for this question the next questions will be of similar kinds of questions like explaining about your project. Then my interviewer started asking me a few tree questions and after that, he gave me a coding question where he told me to convert a tree into a singly linked list. For other candidates, the other interviewer asked questions about DBMS, OS, and OOPS too.

### Round 3: 2nd Technical Interview (Offline)

When I got selected for this round it was an offline technical interview it started at 10 in the morning. In this round the interviewer asked me to tell him about myself in that I told him about my internships and my projects then as I did my internships as an android developer so the first 15-20 min he just asked me android questions and I was able to answer all of those questions, For android he asked me the questions like what is intent, explain about activity lifecycle, what is multithreading and how it is done in java and kotlin, in which thread the UI gets updated, explain background services, etc. Then he started asking me questions about DBMS like he told me to write a few queries and asked me about foreign keys and similar easy questions. Then he asked me a puzzle type of question like if we have 8 batteries and only 2 of them are working how you will find those 2 batteries. Then he gave me one coding question which was similar to the leetcode two sum question in this we have given an array and one target we have to find all the pairs from the array whose sum is equal to the target this was an easy question and I was able to solve it first I used brute force method then he asked me an optimized solution so I told him we can sort the array and we can use binary search. Then he asked questions like what is heap memory static memory and string pool difference between array and hashmap and similar questions I was able to answer all these questions and I got selected for the next round.

### Round 4: HR and Technical Interview

In this round, I had two interviewers one was an HR and the other was a technical interviewer. They first started by introducing themselves then they asked for my introduction. Then the technical interviewers started asking me about my projects and then he asked me a few OOPS like what is a constructor and a destructor or, asked me about inheritance asked about access modifiers, and then gave me one scenario-based question the question was

if I want to book a ticket from redbus then the redbus would send a request to payment gateway and if the transaction is successful the payment gateway sends back a response to redbus so if a hacker holds the request from redbus to payment gateway and let's say the amount he has to pay was 1000 and he changed that amount to 10 now he only has to pay 10 rupees as the payment gateway got the request to pay only 10 rupees now how can we stop it. So I gave two solutions for this 1<sup>st</sup> was to send multiple requests to the payment gateway so that even if a hacker holds one request the payment gateway can verify the amount from other requests but this solution creates a lot of load on the payment gateway so the next solution was optimized 2<sup>nd</sup> solution was to create a hash value for the request and encrypt it so now as hacker even if he changes the amount he will not be able to change the hash value and payment gateway can verify the amount using the hash value. Then once the technical interviewer was satisfied HR started asking questions, he asked me a few questions like how would your friends would define you and then he gave me a puzzle question he told me if there is a 100-floor building and if I wanted to check from which floor if I drop my phone, it would break so I answered it by saying we can use binary search method here and the interviewer was satisfied.

### **Tips for preparing:**

- Focus on your basics.
- Practice coding daily.
- During the technical round -> think out loud.
- Be confident!
- Don't lie on your resume
- Don't copy projects and try to build some unique projects.

### **Contact**

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**Message or call if you have any queries.**