

Task 2:

Why do you like to join as a Software developer?

Ans: There are many reasons why I want to join Zennode as a software developer. Zennode is working on developing innovative products for the customers. The skills required to develop those products align with my skills and I think I'd be a good fit for this role. I'm currently pursuing my masters at IIIT Hyderabad and my skill set would be a great fit for this role. I want to work in a thriving environment where my learning curve is steep and the code that I contribute should impact customers. I am sure Zennode would give me a great opportunity to explore and push my boundaries to the fullest of my capacity.

List top 3 softwares / tools that inspire you. Why do these tools inspire you?

Ans: The tools that inspire me are as follows:

- Google Maps: This product has revolutionized travel and impacted a lot of people on this planet. Before Google maps we had to remember the routes or maybe even carry a hard copy of the map. But now things have changed. Now there's no fear of going to a new place. We just need our phone with an internet connection and we are all set.
- ChatGPT: This product has literally sent shockwaves to the entire world. The intense capabilities show that there's a lot of potential in the AI field and slowly AI is gonna take away the world !. Literally chatgpt has improved productivity and also our creativity. Search has been redefined with the advent of chatgpt.
- UPI: This innovation has made our lives so easy. All we need is a phone and with one click our payments are done. No need to worry about cash anymore!

List top 3 organisations you like to join in your career & why you like these organisations

Ans:

- Google: because of the scale at which it works. It's a great organization where a software engineer could grow. And ofcourse who doesn't like the perks.
- Microsoft: The products built by microsoft are used by billions of people across the world. Yeah the learning curve would be high and of couse the perks.
- Paypal: I also want to explore the financial domain and how software systems work in finance sector

How you position yourself in this industry after 2 years

Ans: I want to be in a position where I can handle the project myself. I want to be a full fledged productive software engineer at any company where I'd be doing what I like. I want to be in a company where I could explore a lot of things and enrich my knowledge.

List 3 projects / products you have built or have planned to build in the upcoming year, also explain your role in the same.

Project 1: Music Player Refactoring and integration:

I've taken a course on software engineering where we had this team project. We were given a huge code repository primarily in Java. My tasks were :

- I refactored and optimized codebase by analyzing code and design smells, resulting in enhanced code quality
- I integrated Spotify and LastFM APIs enabling song recommendations and advanced search functionality.
- I also drew UML diagrams and analyzed the relationships between multiple classes.

Project 2: Deadline Tracking Application with Newsfeed

- This application helps us keep track of our deadlines.
- I've implemented a system where the user can login and keep track of his task deadlines.
- There's also a provision to view newsfeed. I've used an external news api to fetch news data.
- I've implemented the UI using react js.
- I used node js to build rest api endpoints
- I've implemented JWT (json web token) based authentication and authorization. It helps in maintaining a serverless session.
- I've implemented utility functions to sort by task name, deadline and filter by task tag to enhance user experience.
- Implemented a email notification system to send email notifications to the user when the deadline is approaching.

Project 3: Movie Recommendations Using Association Rule Mining

- Performed data preprocessing and created a transactional dataset
- Implemented the FP-growth algorithm from scratch using Trie data structure to find frequent itemsets efficiently
- Generated two files containing top 100 rules based on support and confidence
- Plotted the precision and recall graphs for few users another one based on confidence