

Submitted By:

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General Questions

1. What excites or interests you about coding? What did you learn this week?

Ans:

Well, Coding has always been a passion of mine. I still remember I got passionate about it during my school days. Even though there was not much to learn in QBASIC but I enjoyed writing programs. I still remember the “Library Filter” software that I made using QBASIC and demonstrated it in front of my class. Everyone got impressed and found the software to be useful in some scenario. Thus, my coding journey began early from my school level. I always wanted to create something that could be very helpful for others.

Recently I have been learning GraphQL, Redux Saga and Context API. Being a frontend developer, you must improve your skills and adapt to new technologies as they come by. In React mainly I use redux with thunk for asynchronous actions. But learning redux saga has been very handy. Similarly, Redux has been the go to state management tool for React but slowly many people are moving towards combination of hooks and context API. So, I have also been learning Context API to grasp its core knowledge. Being developed in 2012 and released in 2015 GraphQL has taken the market by storm. Everybody is talking about GraphQL and its merits so I have also been learning GraphQL and yes, I find to be the most helpful and easy library I have come across.

2. What is a recent technical challenge you experienced and how did you solve it?

Ans:

So recently I was doing one of my ecommerce projects. I used firebase as the database option for that project. In this project I stored all the shop items and collections in firebase. In my shop reducer I initialized the collections for the shop to be null in my shop actions. Now the problem that I was facing was that the shop page was unable to load. It reported some errors.

[Code: <https://codepen.io/ashish-pokhrel/pen/abWQqob>]

So firstly, to solve it I modified my shop selector. I came to find out that when initially my program loads my collection is null for some seconds so the selector can't run its function. So, I added a conditional statement stating to run the function if the collections exist and store null if it doesn't exist.

[Code: <https://codepen.io/ashish-pokhrel/pen/GRmwQgv>]

Again, after this it was throwing me some errors. So, I finally understood that since all the actions are asynchronous it takes some time to fetch the data from firebase and since my collections are null my selectors are unable to operate for this particular scenario.

So finally, I created a loading spinner. I made the loading spinner a high order component so that I could wrap other components and deduce the required result. So, I passed the pages to show shop collections and shop collections preview to this created spinner and deduced a new enhanced component. Similarly, on the other side in my shop component I created loading state setting its value initially to be true and after the firebase takes it snapshot and returns us the value, I set it to be false. So finally, I passed the newly created component with the loading value. Due to this now the spinner that it designed will spin until firebase gives us values. And after that the state are filled with the value from the firebase and finally the result is shown in the page.

[Code: <https://codepen.io/ashish-pokhrel/pen/XWRyZNW>]

[Code: <https://codepen.io/ashish-pokhrel/pen/VwbVQKp>]

In this way I tackled recent problem I went through. While solving this problem I took help from stack overflow.

3. Talk about your preferred development environment (tools and technologies you prefer using) or a cool project that you've recently worked on (if any).

Ans:

Talking about my development Environment, I have listed down my desired and preferred tools that I use while programming and love working on:

IDE: Visual Studio Code

Version Control: Git

Operating System: Linux Mint, Windows 10

Documentation: Microsoft Word, Google Docs

API Client: Postman

Frontend Tools:

- HTML
- CSS
- SaSS
- BootStrap
- Vanilla JavaScript
- ReactJS
- React Native

Backend Tools:

- NodeJS (Express)

Database:

- MySQL
- MongoDB
- Firebase

One of the projects that I really loved was LMS. I, along with my teammates created this LMS named “My Virtual Classroom”. In this LMS users could interact in both synchronous and asynchronous mode of communication. In this LMS we made three users one student, one teacher and one super user. Teacher could assign marks to the students, take their attendance, post resources, materials or even assign an assignment. They could also organize an online class. Similarly, in the student side they could submit their assignment and join the class currently taught by the teacher in synchronous mode (Video Conferencing). This was one of

the cool project that I worked on. Here we created frontend using React and Bootstrap and used Node and MongoDB for Backend Roles.

4. What is your general expectation from this internship program?

Ans:

I believe this internship program will help me sharpen my skills. I believe that this intern program will make with familiar with the working structure of the IT companies in Nepal. From this internship I would be able to understand how a project is divided and how a target is reached working in a team. Yes, I have experience of working in a team but not with professionalism. I would be able to understand how the client user cycle works, how the software is maintained and managed. Similarly, the key thing that I will get from this internship is to work in team. Through this internship I would be able to properly work with my colleagues and monitor each progress they made and vice versa. This internship will grant me many professional skills that I will be needing to establish myself as a proper developer in the software companies.

Thus, this internship means a lot to me. This brings a lot of opportunity that I want to grab with my both arms. This internship will transfer me from a rookie developer to a professional developer. I expect through this internship I would be able to bring a high boost in my career as a web developer. Thus, I hope I can grab this internship opportunity because I have a lot of expectation from it.

5. What mediums do you prefer to learn programming?

Ans:

I prefer to read documentation as well watch some videos while learning Programming. I have learned programming mostly from Documentation, some online course that are offered to the students and Programming Books. I have taken various Udemy and Coursera courses to learn frontend and backend development and on top of that the documentation that the development tools provide are also presented pretty well. So, I also prefer the documentation available. For example, the official documentation of ReactJS which is available is very easy to understand and learn. People can easily grasp all the knowledge from the official documentation which is available. Thus, I generally prefer documentation while learning programming and to tackle some of the harder concepts I prefer to take the help from online courses.