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 sorting, pagination and filtering in NodeJS. In this recent week I have also looked into various concepts of frontend development in React such as Higher Order Component, Context API and Redux Saga. I have been learning these concepts from documentation, coursera and Udemy. Talking multiple courses surely has helped me a lot to grasp the concepts very fastly and with better understanding

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

   Ans:

   Recently I Was working in my ecommerce Project. In the Project I faced some authentication problem. I was using JSON Web tokens but I was facing errors. The express middleware I was using was throwing some errors. The error was pointing that I was using an expired token. But I had just accessed the token. While exploring about it I found out that he issues is typically a problem with multiple servers requesting tokens with the same Client ID/Client Secret, from different IP addresses.

Each time one server requests a token, the other server's token is invalidated. The Fuel SDKs only request tokens when an app first starts and when the token is within 5 minutes of expiring. They will fail if the token is invalidated for any other reason, including another server obtaining a token. Hence, I solved this problem by managing my API call which was making multiple Making multiple API calls for every operation.

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 except 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.