

Availity's Full-Stack Homework Assignment

1. Tell me about your proudest professional achievement. It can also be a personal or school project.

My most recent project with Delta Air Lines is easily my proudest project. Back in February 2021, Delta revived notice from the state of GA that they will be receiving a few thousand vaccines to distribute to their employees. In only three short weeks, Delta would be receiving the first batch of vaccines, and we needed to have a live application and system in place to allow our eligible employees to schedule their appointments.

I was part of a small team of three developers who build out this application. I oversaw development of the UI, which was built with Angular8. I also wrote a large portion of our backend API, including features such as appointment scheduling, cancellations, and modifications, as well as user consent management, notification alerts, and confirmation emails. We also implemented an in memory caching of the application's verbiage from a SAP HANA database, which allowed for text updates to the app without the need for deployments or downtime, all while minimizing database load.

After many sleepless nights and a LOT of teamwork, we were able to successfully deploy to production in time for the vaccines, and we have overseen 3 major version updates as well in that amount of time. Thousands of Delta Air Line employees have now been vaccinated thanks to our application!

2. Tell me about something you have read recently that you would recommend and why. (Can be a Github Repo, Article, Blog, Book, etc)

I really enjoy reading about the engineering teams and tech stacks that companies I like use in their day to day. A few days ago, I read a StackOverflow blog post about SpaceX and their team of engineers. SpaceX is arguably one of the most interesting companies in the world today, and a company I have been following since long before I wrote my first line of code.

The article talks about the challenges the team faces as they continue to grow and evolve, and how they manage to build a scalable infrastructure for a company with many diverse projects and teams.

I was always in awe of the people that worked behind the scenes at a company like this, and figured that they were lightyears ahead of myself when it comes to tech knowledge and skills. Reading articles like this not only puts real world issues involving software into perspective, but it also shows me that even the companies I define as 'super awesome' are using technologies that I use in my day to day.

<https://stackoverflow.blog/2021/05/13/building-the-software-that-helps-build-spacex/>

3. How would you explain what Availity does to your grandmother?

Well, grandma, let's say that you just got out of the hospital and you received your bill from your insurance company. How does this process actually happen? Things can get very complicated if you think about all of the different hospitals out there and all of the different insurances and plans that people have! It seems like there could be a lot of room for error, confusion, and headache! Availity comes in and cleans up the mess. Now the hospitals only need to submit their expenses and bills to one place, and they will take care of conflicting formats! That way when the insurance companies receive the bills from the hospital, which Availity takes care of as well, everything is consistent, and standard, and everyone is happy!