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

When I was working with Crown Equipment Corporation as an Intern, I have got a chance to upgrade their Warehouse Management SAAS application (Infolink-4). It uses following Java web services

1. Java Server Page (JSP)
2. Apache Struts and Spring Framework for the backend
3. Gradle as build tool
4. WildFly application server with Undertow as a web server

I have upgraded Java version from **8** to **11**, Gradle version from **2.5** to **5.3** available at that point and WildFly from **8.0.2** to **16**. It took me entire 2 weeks Sprint to complete and test. Typically, before upgrades were done by senior member staff but I got a chance to work on it because of my can-do attitude.

Later, I got a chance to work on their cloud platform event driven microservice architecture application (InfoLink-6). Because of my previous experience on working with Gradle, I have created new gradle plugins, written unit tests that were previously missed for the entire plugin project. This help in reducing code duplication as plugin can be used in multiple backend microservices gradle projects. After completion, I was labelled as **Gradle master** within the department by chief Architect Aaron Harshbarger. These were the achievements while I was going to school taking 16-19 credit hours workload and working at the same time.

While working as a Research assistant, I have designed iOS application written in SwiftUI, UWP application in C# to capture wearables data (Microsoft Band 2 using UWP and Empatica E4 using iOS). For that I have also created simple iOS single page version of Nasa Task Load Index to measure demand. I have used AWS OpenSearch service (previously Elasticsearch service) to store sensor data from both applications. AWS ApiGateway WebSocket to route through AWS lambda function written in Java to get messages back and forth from both applications. Event driven LMAX disrupter is used in iOS to transfer sensor logs to Elasticsearch whereas Serilog http sink is used in UWP application. MVVM design pattern along with thread safe singleton design pattern is used throughout the project.

I have several moments that I can keep on writing, but these are few of many of my proudest professional achievements.

**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 have been following Dr. Venket Subramanium for a long time. He is my goto guy for Java conference. Although, I have never gotten a chance to see his conference talk live, but I watched all his conference talk in YouTube. Recently, I got a chance to read his book [**Functional Programming in Java: Harnessing the power of Java 8 Lambda Expressions**](https://pragprog.com/titles/vsjava8/functional-programming-in-java/). This book helped me learn functional paradigm of programming using Java. As we know Java uses imperative programming pattern, I have learned Java in same pattern as other people do. This book has helped me learn how powerful Java streams are. And, I have to say that I have learned about Java streams through his talk, and I have been using since. But this book helped me mark out about the designs that can be implemented using Java streams. This book has been outstanding for making me implement error-less, optimized, and flawless parallel code. Moreover, this book has made me fall in love with Java streams again.

If you want to implement beautiful, elegant Java code, concise language semantics using Java and if you want to turn your code easily into parallel, with less ceremony and effort I will highly recommend this book. This book will help you to have a paradigm change in functional style of code not just by doing things but by also understanding the concept properly.

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

I think my Grandmother is little to old to understand the concept of technology involved in Availity. However, I can help her understand what Availity does in her own understanding language. She understands what it means to go to hospital. She also understands that there can be exchange words between front desk staff and the patients. Front desk staff can’t remember all the information at once using spreadsheets. She also understands that there can be transaction between patients and hospitals as patients must pay for the services used. But she doesn’t know what the patient related information are that hospitals can operate or allow to transfer as EDI transaction. That information is easily available to the trusted parties at real time so that healthcare service can focus on providing more health-related services.

Just like my grandmother gives her insight to my parents and me, Availity does give to their users. She does understand that her healthcare claims, eligibility, requirements are point of focus during service transactions. So, I will tell her that Availity is making service provider work easier by providing point of service solution which helps reducing patient time in paying for their services.

However, she still might not get why her knitting business is not doing well. Maybe I will tell her that do you have a record for everything so see can look the report. Now she will understand that reporting is necessary for business to look how they are performing. So, Availity will provides reports snapshots of providers state so administrator can look how they are performing in the market. She might be wondering why I am giving healthcare information to her. I will tell her that Availity provides services to health care providers. Just like every people need services, service providers do also need services to run, so does health care providers.

She might not understand the complexity of HIPAA transactions, revenue cycle, EDI transactions and many more. I will tell her that there are times where she must file for claims to get something done. She must hassle with forms just like she files her taxes. She might have to recheck again. She might wish if she can get help so that she can file sooner and get her tax credits back faster. Just like it, Availity does prevent the hassle of revenue cycle in health care providers with less effort. When she is filing her taxes, she might not remember which form to use. So, does health care offices can be confused with which form to use. Availity essentials payer portal will manage all these things so that they can run smoother. Just like when she needs information, she will try to find source of truth. So, Availity will be source of truth to transfer data between the providers.

Lastly, I will tell her that just like she took care of us, Availity will take care of providers when using their service with no hassle.