

REFLECTION PAPER #2

Embarking on my journey as a Master's student at Santa Clara University is providing me not just a degree but the thinking to see the world and reshape it by creating and building innovations. Other than the technical knowledge within the Engineering domain, the ethics and career success within the interpersonal skills enhances us to improve the overall environment we work in and bring about a solution to global problems by working within their culture and improving one's own behavior. Some of the engaging courses that proved to be most useful are Mobile App Development, Design & Analysis: Algorithms, Co-op Education, Wireless and Mobile Networks and Computer Networks as they helped me with gaining knowledge in advance and helped me with my preparation for the Engineering world outside.

Mobile Designing is something that has been my passion since I first started building one and this course I pursued enhanced my designing and development skills for building real world mobile applications in a responsive and efficient way with optimal code use. Devising them in the most popular programming languages like Java and Kotlin for Android for my final project where my team and myself built a sensor based health and fitness application, utilizing the concepts we learnt during the coursework and implementing them boosted my knowledge in various topics within the mobile applications domain and helped me implement it in my projects. Building the mobile application according to users' needs is something that I learnt while building the app with my teammates where we gave timely demonstrations of the application to our professor and he provided us with improvements to be done. Other than the technical knowledge I gained, other skills like group discussions, assignments, doubt solving, group formations, presentations helped me in working together with my classmates where we put forward our ideas and worked on building and performing well in our courseworks and within ourselves overall.

Design & Analysis: Algorithms is a crucial coursework for Computer Science students as it helps us in improving our logical thinking and solve real world problems. This course helps me in improving my thought process for solving complex problems and working towards an efficient and optimal solution. The various topics covered in class related to Time Complexity, Dynamic Programming and Data Structures with assignments on these topics in popular coding websites like Leetcode and theory based questions provided a way of learning and understanding the topics while solving them in the problems given to us in assignments. Coding is important in an engineer's work life as it is the beginning stage of becoming a better engineer and helps us in solving problems in computer languages and further improving the solution according to customer needs. These topics are essential for interview preparation and solving real world problems and it helped me augment it overall in this coursework.

Co-op Education provided me the opportunity to learn about the various cultures in Silicon Valley and how to work towards adapting to the culture with improving the ways of behavior we take to make the environment more pleasant and work friendly. Topics like gender working together to build better teams and ethics in a workplace and the various ways Jesuits help in

innovation within ourselves for work have assisted me in understanding the work culture and strengthening my ways of securing a good opportunity in Silicon Valley.

Wireless and Mobile Networks assisted me in understanding the wireless networking concepts, especially in cellular networks as it is being used and implemented in every gadget people use. This coursework helped me prepare myself for interviews where I could give for Security and networking internships. The professor gave real world examples on companies like Cisco working on these technologies and how it evolved over the years and improved the overall networking technology.

Computer Networks helped me in improving my concepts in networking and learning some topics on an advanced basis. The various topics like Ethernet and IP Protocol with System Troubleshooting provided me with knowledge and implementing them in situations in real life where most of our tech gadgets like cell phones, laptops and projectors work on these concepts. Detailed presentations and concepts were taught by the professor along with a programming assignment on customized UDP Protocol was to be designed with client and server, along with error handling. This helped me in understanding the concept and implementing it in my assignment.

Overall, these courses have revamped my knowledge in various aspects, technical as well as non-technical. Santa Clara University has offered me these advanced courses with great depth and amazing faculty to teach us and help us utilize it in our real world problems in projects as well as at work. I will contemplate these skills in my upcoming venture, during my curriculum practical training as well as my next full time job search in the Silicon Valley.