

Computer science is one of the fastest growing career fields in modern history, and it has become one of the leading industries in the world today. I never wanted to choose Computer Science as a career path, as I was overwhelmed by the trauma my friends created about coding. Now, after over 2 years of doing computer science, I can happily say that there is nothing more happening and interesting than it. It has inspired me to create things which could make people's lives easier. I can proudly say that "coding is hard" is just a myth, and it only gets better.

After almost two years of coding at school and at job, I have gained immense amount of knowledge. So far, I have learned the two most important imperative programming languages, Java and Python. I have been working intensely with Python since the last year. Learning its data structures, optimization, and working with its very interesting data science libraries (NumPy, SciPy, and Pandas) helped me gain deeper understanding of it. Not only imperative, but learning functional programming was also an amazing experience for me. It's astonishing because one simply can't think the same as imperative languages because of its language paradigm. Thinking back to lambda calculus, and how terms are evaluated there has surprised me the most. Also learned about how 'lazy' Haskell is, and how smooth Skim (Racket) is!

Not only that, I find web developing very interesting. I worked on web developing with Flask framework (with Python and JavaScript) first time at my current job. Making stand-alone desktop applications with Electron JS and NeDB made me think that it is really not that perplexing as I thought it would be. I won't forget stating working with Python and not mentioning my experience with MongoDB. The No-SQL database has really been easy to use, and I also got to learn a lot about JSON objects from it.

Recently, at my current job, I have been working on a mobile application for a children's hospital using React Native. The main object of the app is for doctors and parents to keep record of the child's health data. I single handedly completed the entire project, and it is now out on Android Play Store for beta testing. This project really got me interested in networking and servers. I made servers for several things by myself using Node JS with Express framework. React's APIs and JavaScript's very useful npm packages were really helpful.

My future plan is to work towards and learn more about Machine Learning. I am very interested in Natural Language Processing and have been working on personal projects by using Python for it. I learned about deep learning and how one can train the algorithm to do possibly anything and everything. As Machine Learning requires a good command on data, I have chosen Statistics as my minor.

I have been awarded scholarships at my county college for my academic performance. Not only that, I have been selected for Dean's list multiple times as well. I believe my knowledge of programming, along with other skills could be very helpful for this research program.