I am Karthik Kolathumani, a software engineer currently working at Oracle Corp, redwood city.

I hold a masters degree in computer science and system from the University of Washington Tacoma.

During early days, I was blessed to have a computer at home which fascinated me a lot and I spent most of the time using it and learning more from the Internet using 56kbs Modems. I honed my skills playing around with it and debugging applications which steered my interest towards programming. This provided me a foundation to pursue my Bachelors in Computer Science from a decent school in my neighborhood.

During my undergrad, my curriculum revolved around theoretical subjects understanding the nitty grittys of building the machine itself Like Digital Electronics, Discrete Mathematics, MicroProcessors and architecture. I put my knowledge into practice by taking advanced programming classes Java and Data Structures and compilers and became fixated in problem solving and practiced many problem solving challenges on Hackerrank coming up with optimized solutions which led me to secure a job at Capgemini (one of the leading consultancies in Bangalore Karnatka). This exhibits my interest and passion in the subject all together. But there was still more to learn other than just programming and theoretical know how. T

I worked as a software engineer in the Data and Insights team at Capgemini in a team of 30 engineers trying to reduce the turn-around time for business analytical reports.

We tried to solve this problem by considering modern day no sql database like Cassandra in contrast to the previosuly used relational database, MySQL. Cassandra offered us many benefits being replicated and performant.

We used ETL tools to move - stage and finally commit data to cassandra servers. Performing volumetric analysis we came up with good relication factors making our end report view model to be performant. This experience taught me about how the database stored data both in a relational and non relational context in a distributed environment. Upon the successful completion of this project phase, I was promoted to software developer II position. My curiosity to gain more knowledge from a systems implementation perspective had just began to fledge. Balacing my work with studies I gave my GRE and TOEFL. I was fortunate enough to get a decent score and got admitted to a masters program in computer science and systems at University of Washington Tacoma.

Our approach involved migrating data from SQL to a NO-SQL schema. This experience taught me mostly about warehouse data modeling, extraction transformation and loading between and from relational to a non relational schemas.