

STATEMENT OF PURPOSE

Masters degree is a big step towards advancing education and after much thought I have decided to pursue my Masters in Computer Science. Upon finishing school I was selected for the Bachelors of Science in chemistry at the prestigious Delhi University. However my liking for Computer Science guided me into pursuing a Bachelor degree in Information Technology at Institute of Engineering, state ranked number 1 university.

My main objective during my undergraduate studies was to get an overview of various fields in computer science and identify a field of interest in which I could pursue my research career. As a student I liked Computer Networks, Cryptography, Data Structures and Operating System, I found these subjects to be very interesting and challenging. These subjects were interesting as they lay the foundations of today's world of technology and I could associate what I learned in books with real applications.

In second year of college I did internship in Nettech on Information Security and Management .The coursework at Nettech was particularly useful in understanding the intricacies of internet. This internship was immediately followed by coursework in computer networks at my college which furthered my curiosity and I took this opportunity to gain hands on experience on ns simulator.

In third year, I presented a home paper on technical and ethical aspects of “plagiarism”.

My final year project was on" Optimization of query processing in distributed databases" .It gave me the opportunity to understand the complexities of distributed networks. My main aim in this project was to understand the algorithms of query optimization in a distributed context and then give my inputs as to how they can be enhanced by use of threads.

I was always among top 8% of the class and had excellent marks in projects and lab courses.In final year of college I appeared for Graduate Aptitude Test in Engineering (GATE) which is the most prestigious exam for higher studies in INDIA ,and obtained an ALL India Rank of 2060 among some 1,55,000 candidates

After graduating in 2014, I joined TATA Consultancy Services .During my stay in the organization I got to work in multiple projects and technological domains. I am currently working there as a Java developer for Test Automation Technologies. For first project I worked on a software called Data Migration Assurance (DMA).This automates the process of data validation when an organization migrates its data from one database to another. It was a very large scale project and through this project I gained insight into several types of databases. My project had a lot of influence on my career choice. I was working on extracting data from images and unstructured sources like PDF's. We had to do a lot of research and finally we came up with an improvised algorithm that increased the extraction accuracy of tesseract API. This software was approved by Wells Fargo for deployment when I was the module lead .

Industry experience was of immense importance in broadening my horizon and I learned how to tackle problems and solve challenges in large scale applications. It also was a major driving force for

pursuing higher studies. I like my job as a developer but at times it limits my imagination and potential. I like to code but simultaneously I enjoy topics on Cognition and Robotics. To remain in touch with the current literature on these topics I have taken up courses on Coursera. Currently I am enrolled in Signature track course by Duke University, USA on The Brain and Space, which will be completed in mid October 2015.

Technischen Universität Kaiserslautern has a very balanced coursework of theory and practical, simultaneously being very flexible in letting the students chose there desired specialiazation. The research here being carried out in the field of Intelligent systems and Computer Security is very cutting edge. I have always had interdisciplinary interests and therefore Technischen Universität Kaiserslautern is totally apt for me. Germany also has excellent Internship scenario. In India colleges don't usually have good Industry relations therefore internships in your designated field are hard to come by. Considering these points I have opted Germany as my study destination. My goal is to pursue a career in research, either in industry or in academia. Ten years from now, I envisage myself as a full-fledged research professional in an organization, or a faculty member at one of the leading universities.

Regards,

Ankita Verma