

STATEMENT OF PURPOSE

Being in the IT field for the past six years, I have explored the roles of both an IT Executive and a Software Engineer. I have been associated with four companies until now and received numerous chances to work on different projects with different technologies. In 2018, I was working on one such project where I received one change request from a reputed client Bussan Auto Finance. The ideas and logic required to accomplish it demanded a deeper knowledge of technology. It was not an easy task. However, I was able to make the project live with the help of my manager. That was the time, I realized that to take my career farther, I need to gain in-depth knowledge in this field and this was only possible through higher studies. Thus, I decided to do Master's Programme in Computer Science at University of Texas, Arlington.

My undergraduate studies in B.Tech in Information Technology at Dr. K.N. Modi Institute of Engineering and Technology in Ghaziabad helped me develop a strong background in IT. Here, I was introduced to concepts such as Programming, Databases, and Algorithms. My interest in programming led to me complete a vocational training in 'Java' and 'Data Structure through C Language', from UPTECH Computer Consultancy Limited, Lucknow. I further completed a course on 'Developing J2EE Applications using Web and Business Components' from NIIT. My fascination with this field deepened during the various seminars and workshops held at our college. Following this, I attended an industrial visit to Bharat Sanchar Nigam Limited, Lucknow wherein I observed the functioning of both landlines and cordless phones. I also studied the process of converting voice signals into electrical signals. Here, I came across different networks like PSTN and MSTN. Later, I also was certified as a Neo4j Certified Professional in 2016.

After bachelor's, I joined Kewill India Private Limited (now Blujay Solutions) in Hyderabad as Management Trainee and exited the company as Senior Software Engineer. My first project in Blujay Solutions was DHL-QMS (QuoteShop Management System) as Management Trainee. I started the project from scratch with four team members. I had interacted with different vendors for implementing their events in the project and making it available to the users. I designed the database in Oracle. My second project in Blujay Solutions was Kewill LinerIn, the same company. I worked for esteemed clients Bahri, OACL (Ocean Africa container Limited-South Africa), Samudra, and TCI Seaways. As a Software Engineer, I was involved in the full Implementation Cycle from the Requirements Stage to Live Stage. My third project was 'Container Visualization' for our esteemed client Bahri as a part of POC. I worked on copying the data from Oracle to Hive using Sqoop and then passing the filtered data to Neo4J using Impala.

Post this; I joined Gati Limited in Hyderabad as Senior Executive IT. Here, I developed the 'Gati Enterprise Management System' (GEMS) and GICE. I automated their shop operations called SFA i.e. Shop Floor Automation. I designed and implemented cron jobs, tuned SQL queries, and loaded thousands of dockets in the database for mass shipments using SQL Loader. Further, I received experience in various development tools like SQL Developer, SQL*Loader, Oracle developer 10g/9i, Forms 10g/6i, and Reports 10g/6i.

Taking my interest forward, I joined Ilabs Enterprises Service Ltd. (Client: Maruti Suzuki) (now Rlabs Enterprises Service Limited) as Senior Executive IT. There I worked in DMS (Dealer Management System) in an in-house product. I implemented GST (Goods Service Tax) in the Sales module from scratch. I was also involved in helping/training subordinates, helping them

wherever required to solve the issues. Currently, I am associated with Nucleus Software Export Limited, Noida, in the capacity of Senior Software Engineer. I am handling the project for Finnone LMS (Lending Management System) and handling international clients like BAF (Bussan Auto Finance), ANB (Arab National Bank) and ENBD (Emirates NBD). I am working on both enhancements and support process. My job involves database programming, developing packages, procedures, functions, and triggers in Oracle. I also developed new reports and forms In D2k. here, my hard work was recognized within six months, I received the 'Great Start' award for excellent performance as a new joiner.

After acquiring a solid foundation in software field through different workshops, seminars, training and professional experience, I felt a strong urge to take forward my knowledge to the next level by doing MS in Computer Science. I joined UTA for my master's as non-thesis student. Initially, there was nothing new, it was routine course work. Luckily, in my first semester I took Neural Networks. From then I have strong urge to go more deep into Artificial Intelligence. My interest got so deep that I decided to do my major in Artificial Intelligence. I took Artificial Intelligence, Machine Learning, Reinforcement Learning, Advance Topics in Multimedia, Graphics and Image Processing etc. as my courses. In my second semester, I met my mentor Dr. Manfred Huber. I told him my research interest. He took me as his thesis student. My current research is based on Deep Learning, Computer Vision, and Machine Learning. I am using NIR GigEVision camera to extract features from images captured and come out with some useful information from them. It's in work in progress.

Hopefully, I will take Unmanned Vehicle System under Dr Huber which I missed in my Master's due to limited credit hours and degree requirements. At this point, I am planning to work in Intelligent systems in my PhD and switch to Robotics.

I want to learn new concepts and equip myself with emerging technologies and concepts. I want to pursue a PhD in Computer Science to hone my research skills and work on Artificial Intelligence, Machine Learning, Computer Vision, Deep Learning, Robotics, Unmanned Vehicle System or some other exciting areas that I have not gone through till now. In the long run, I see myself heading the R & D department of an IT firm and work on designing and developing softwares for customers, business and government independently.

The Phd-Computer Science Programme of UTA seems to be interesting and well established; it gives the chance to explore on Machine Learning, Artificial Intelligence, and many more. Adding to it, the well-equipped laboratory facilities and reputed and experienced faculty further motivated me to opt for your university. I was quite fascinated with the current research agenda of yours. I eagerly await to study under your guidance, learn from your experiences and hope to contribute to future research works.. I hope my technical skills and knowledge in Artificial Intelligence field will contribute in your projects.

Lastly, I eagerly look forward to a positive reply from your side and hope to become a part of your reputed institution. I am positive that a PhD degree from your university will provide me with the right guidance and academic degree to pave a successful path towards a brighter future.