

Statement of Purpose

Completing my B. Tech in Electronics and Communication was a prodigious learning experience and I loved every moment of it. However, I found myself inextricably attracted towards the enigmatic world of Computers and Information Technology. I was in awe of the fact that a single piece of code, a string of commands can be used to control a large device and have a far-reaching impact. In fact, my deep interest in IT has been nurtured over the time I spent working as a Systems engineer in TCS Limited. Each piece of code I write is like a complex conundrum, which gives me utmost joy on its completion and successful execution. An MS in Computer Science from UCD, Dublin will be a logical progression in my professional and academic journey, a stride towards exploring the vast spectrum of Information Technology.

As an avid student of the STEM domain, I completed high school securing 91.2 % and took admission in the Bachelor of Technology Program in SRM University, Chennai. The four-year program laid a sound foundation of Engineering covering the basic subjects like Engineering Mathematics, Electronic circuits, Communications, Object oriented programming as well as deeper knowledge of VLSI, Control Systems, Communication (digital and analog), Computer Networks, and Embedded systems amongst other subjects. I did a number of projects and internships during this time including training in Telecom at Bharat Sanchar Nigam Limited and a one month Summer Internship at RICO Industries. My project work in college provided unique learning opportunities to test my engineering skills and instilled confidence, team spirit, and the unparalleled sense of achievement of working on live projects. I was the team leader for my final year project on 'Sound Level Control with Audio Announcement' using the concepts of _____ . The faculty and students alike appreciated the innovative project and my research paper on the same was published in

<http://www.ijermt.org/publication/7/28.pdf>.

Post my graduation, I got through Tata Consultancy Limited, Gurgaon, an industry leader in the software domain as an Assistant Systems Engineer. Rising quickly through the ranks, I was promoted to the position of Systems Engineer owing to my dedication to work and the ardent desire to learn on the job. I have gained deep insights and expertise in technologies like JAVA Spring Boot, AI, Machine Learning, Apache Spark to Tensor Flow and Intel Caffe. I have also worked on implementation of Micro-services using Node JS Server as well as their deployment on Docker and Amazon Web Services Kubernetes. My work on the automation of Brocade VYATTA Routers using Application Programming Interface to enable auto-configuration for the Client's Global Software Defined Network earned me 100% Customer Satisfaction Index by the customer and the honour of the Star Performer by the company. Growing as a person and professional, I have gained the ability to lead a team, look at the bigger picture and

arrive at a holistic solution to any problem.

With four years of experience under my belt, and the opportunity to work on virtual reality portal in Lenovo as an IT Analyst, I think it is the right time for me to delve deeper into the domain. To stay relevant in this dynamic industry and to be able to work at the forefront of technology, one needs to keep up with the lightening speed of advances in this industry. The experience of working on upcoming technologies like Artificial Intelligence and machine learning is something that is hard to learn without proper guidance. An MS in Computers is thus a guiding light. With a graduate degree, my knowledge base will deepen, and coupled with the expertise I have gained through my industry, I believe I can propel my career in the right direction.

The UCD, Dublin is the first choice for an academic destination as it is a renowned university with highly effective and modernized instruction methodology, and state-of-the-art research infrastructure. The immersive curriculum is structured to incorporate the frequent upgrades and updates in the dynamic field of AI and Machine Learning. The expert guidance by faculty who are leaders in the domain with insights into emerging technologies and frameworks promises to be an exciting learning opportunity. The chance to transcend borders and interact with a multiethnic student populace, exchanging knowledge and experiences with the advantage of cutting-edge international education will be the culmination of a cherished dream.

Thus, I wish to further my erudition in the vast domain of computer science and its applications, while developing critical thinking, research, and the ability to seek solutions through creative, out-of-the-box methods. In the words of Steve Jobs, "Innovation distinguishes between a leader and a follower". I certainly wish to be an innovator and undertake software systems research in the long term. The intense academic environment, coupled with a truly interdisciplinary setting and a multi-faceted approach to learning in UCD is an opportunity that will enable me to push the boundaries of technological innovation and embrace ensuing challenges.