

Statement of Purpose

The field of Information Systems is soaring by leaps and bounds. Humongous advancement in IS has made me seek after its limitless capabilities. A Master's in Information System shall bestow me with an ideal mix of specialized and administrative abilities. Through this statement of purpose, I want to present a brief of my scholastic, individual foundation, characteristics, my wellspring of motivation, and my objective for my higher studies. I'm well-equipped personally and professionally. My experience of years has helped me gain in-depth knowledge of writing well-designed, testable, and efficient code by using best software development practices. I have gained insights into how the IT industry works. To have some technical as well as management exposure, I joined Tata Consultancy Services in 2019. As a software developer here, I've had the opportunity to learn about modern technologies and efficient database operations. Our internal team members' approach to designing optimal code, handling vast amounts of client data, and making the best business decisions kindled a spark within me to explore this dynamic field. I got to deal with members of the payment gateway team, and their ability to anticipate the business impact. My initial function in my team was to create an optimal code based on the client's requirements. Following that, I took responsibility for managing the project on my own, gathering requirements, managing my colleagues, and soon after, I began developing the application, which further inspired me. For cost-cutting reasons, I have managed several clients' databases while designing and developing efficient code to allow multitenancy in the application. My endeavor garnered a lot of appreciation.

In addition, I started working as senior engineer at Tata Communications in October 2021. I worked on containerizing applications with docker and created a Kubernetes cluster to recover the application in the event of a disaster as well as to maintain replicas of microservices. On pinnacle of this I even have integrated microservices with keycloak (an open source software product) to provide role based authentication for unique microservices. Furthermore I utilized Kong API gateway to expose api's in a secure manner. In addition, I was in charge of mitigating and resolving the log4j vulnerability in several projects at my company. On the other hand, I'm working on designing apps that employ the MEF standard, which allows telecom-related devices to communicate with numerous partner's domains and service domains. I also learned the know-how of computerized and manual procedures. I played a massive role in decision making and it certainly fuelled my interest in opting MIS as my master's degree. After my graduation in Computer Science Engineering, pursuing higher studies became certain for me then. I thought I should rather pursue some course in which I'm interested. MIS will give me a platform to work in an organization by augmenting my adroitness in development and management. I was a part of various projects including a lot of banking activities such as transferring funds, balance inquiry, depositing funds, mini statement, transaction inquiry, withdrawal, and so on, since I have more than two years of job experience in IT. Furthermore, I have extensive experience in Kubernetes, a container orchestration platform especially in creating deployments, services ,pods , ingress ,persistence volume claims and so on. As a result of these assignments, I've become a better backend developer, especially in Java, as well as an IT professional. I began deploying my organization's Spring Boot-based application in the Spring cloud, and I assumed responsibility for the entire project. These experiences are going to help me use statistical strategies and advanced technologies for scrutinizing historical data to gain updated inputs and apply well- strategic decision-making.

Furthermore, I have studied a variety of programming languages such as c, c++, java, and python, as well as key disciplines such as Artificial Intelligence, Database Management and Systems, Data Warehousing and Data Mining, and Web Technology, all of which are

essential to this course format. Aside from academics, I've learned and received certificates in Data Science and Big Data Analytics, cloud infrastructure services, Spring framework, Junit and Mockito, and Java Messaging Services (JMS), docker, Kubernetes, Nginx, JWT, JAX-RS all of which have proven to be extremely useful in my profession and workplace.

During my academic studies, I was fascinated by projects involving software development, network security, and data visualization, which piqued my interest in learning more about application development and information systems. M.S in MIS would help me quench my covet for knowledge and experience in this arena. I would love to see myself becoming a sound and intellectual professional, keen on expanding my study and research and sharing the same at my future workplace. I also dream of embarking on a journey full of new opportunities. I want to fully utilize my training adroitness and secure reputable stature in a renowned organization to widen my graph and social skills.

I am aware that the field that I have chosen requires a lot of abnegation and physical exposure. I was determined to get some hands-on experience in this industry in order to gain some understanding. I have more than two years of experience as a web developer. Different abilities like correspondence, introduction, association, and time management assist me with finishing the task within cut-off times. I have learned to interact confidently with the public, whilst handling multiple tasks. After attending a webinar on data analysis during my second year of undergraduate studies, I became interested in it. Using Twitter API and Beautiful soup, I created a project during my third year of undergraduate studies to anticipate 'hot trends in the city.' This project inspired me and created the groundwork for my senior thesis. Having a rudimentary understanding of data analysis, I chose to use everything I had learned in that class for my final semester assignment. As a result, I started a project with a team of 5 people. During my undergraduate studies, we worked on a project called "Influencer Forecasting in Social Networks." We used the Twitter network and double-checked the accuracy of the prediction. Raw Data Collection: The project's data that I used is a collection of raw data retrieved via the Twitter API. For the data collection procedure, we obtained a text file from Twitter API. An ego network was built as nodes and edges for both circumstances using the Networks, tweepy, plotly, NumPy, Pandas packages. We utilized a built-in R package called get NRC sentiment for our investigation. The eight emotic characteristics have been categorized based on phrase frequency. Two algorithms, j4.8 and Random Forest were used to determine the accuracy of the anticipated influencer. My knowledge to date has helped me to polish my repertoire.

The only catechism was why the USA for my higher studies?

The United States of America is a perfect blend of superlative management and high-octane technology. Not to mention, many renowned companies like American Express, Barclays, JP Morgan, and M&T Bank are flourishing with each passing day. The education that New Jersey Institute of Technology provides, shapes a student's career goals and objectives. The methodologies build critical thinking abilities, faculty members are known to bestow scholars with advanced tutelage and cross-cultural skills. Conclusively, New Jersey Institute of Technology experienced and encouraging faculty would help me develop a grip over facets such as management skills and IT attributes, which are not merely intriguing, but also offer vast progress. The pragmatic implementation of theoretical aspects also persuades me to be an integral part of this academic community and step out of my haven. The hands-on knowledge I will acquire would validate me to attain my goals a few years down the line and work towards working as an MIS analyst. Thus, in the pursuit of my hankering, New Jersey Institute of Technology is undoubtedly the most germane progression for me.

Finally, I'd want to thank you for giving me the opportunity to express myself, and I look forward to being accepted into the New Jersey Institute of Technology's Master of Science in Information Systems programme.