



Statement of Purpose

Your statement of purpose should be a concise, well written, document about your academic and research background, as well as your career goals. Be sure to discuss special areas of research and interest. Additionally, it can communicate how Georgia Tech's graduate program will help you meet your career and educational objectives. (1000 words)

As a young and utterly curious scholar, the realm of computer science was often my recluse. I studied my senior schooling with Science stream subjects; utilising my early academic years to get privy to computer hardware fundamentals and whetting my appetite for software development skill building. Subsequently, I curated a knowledge bank via research work covering AI/Machine Learning, Neural Networks and DATA capabilities.

As an undergraduate engineering student, I worked well to absorb the scope of my syllabus and often ventured out of it to learn the latest industry innovation in the domain of AI and Cloud Computing. I have completed an off campus certificate course in Machine Learning & Python at the Verzeo Edutech Pvt Ltd. Through building prototypes as an undergraduate student and while working as a Software engineer since January 2020.

I am keen to learn more about industrial automation including robotic modelling and motion dynamics. Apart from delving into the academic research, I closely follow the developments at the Boston Dynamics and am admittedly smitten with the quality of execution delivered at their labs. I aspire with vehemence to establish and enable similar quality output and innovation from an India based Innovation Lab. Recently I got a chance to attend a virtual roundtable with some developers at the Honeywell Automation Labs, who are working on a Cloud based Flight Management System (Digital Cockpit Automation) for the Boeing Company. The conversation enlightened me with the ramifications of combining ML and Cloud Computing technologies and the expanse of cost cutting that can be enabled through technology.

My primary learning objective remains to structure a skill bank akin to an expert product builder and innovator. I look forward to upgrading my skills in Deep Learning Algorithms under an astute purview of developing executional capabilities with machines and training myself with cloud computing technologies to create seamless, user-friendly dashboards of the technological utilities that I envision.

Most of my innovation springs from witnessing the ICT revolution in the Indian Technology ecosystem. While there is no doubt that developments in my home country are unprecedented; especially in terms of digital adoption, yet, the finesses of technological thought process is often influenced with the immediate industry needs rather than developing an off-beat futuristic version of technology.

My research into the developments of Smart Supply Chain and Warehousing technologies in India revealed that there is a colossal scope to improvise the current processes with dire needs of changing the core methodology and design thinking approach.

I hope to educate myself with cutting edge technologies that can deliver the objective of perfection in such industrial scenarios but with a starkly different technological approach. To my research imperative, it is more sensible to deploy intelligent machines/ robots with fluid motion capabilities akin to the 'Spot' machine developed at Boston Dynamics. The SKU management must be semantic scan based while the final deliverance of packaging and shipping must be perfected through an intelligent assembly module. I have a reasonable understanding of such domains and I seek out best exposure to similar learning which can undoubtedly be facilitated at Georgia Tech.

I foresee to develop similar solutions with a savant like approach that can deliver the technology solutions, sell it effectively to the industry and thereafter ensure a cost friendly industrial level scale up. The Master's program proffered at the esteemed Georgia Tech campus is perfectly aligned to my aspirational success. I am certain to learn amid the intelligible peer and mentor community which is well supported by the best lab infrastructure and superlative industry partnerships. The syllabus structure at your university will allow me to systematically concentrate on the key academic areas of AI and cloud computing while making me privy to the esoteric know how of system design and entrepreneurial skills.

I will be able to test and deliver my research with heightened success and simultaneously apply my education for practicum result via the brilliant co-op programs and lab activities. My method to learning sticks fore mostly with identifying interest, detecting areas of ignorance and subsequently nullifying the latter; while every new learning springs even wider curiosity and hence the progression. Throughout out my academic progression, I have conducted studies with diligence and fervor, achieving meritorious grades since middle school. A chance to learn and innovate at Georgia Tech will allow me to cover the breadth of computer science and work in the research group will help me deepen my insights and enable me to groom for a research career.

My career ambitions include working in the upcoming technology sectors in India that offer scalable solutions to commercial and social problems. Industries such as Agriculture, Retail, Finance, Insurance and Wealth in India are increasingly becoming Automated and data centric. After completing my Master's, I aim to contribute to the growth of digital sector in India with world class technologies but made in India.