

Computer Science

In a paragraph of 250 words or less, please explain your choice of Computer Science. Include academic areas of interest, future professional career goals, and strengths you would bring to the department. This statement of purpose will only be reviewed by the Computer Science ETAM application review committee.

Computer science has always been a growing passion of mine. Since middle school, I have been captivated by problem-solving, programming, and other fundamental principles of computer science. My interest began with discovering Scratch, where I would do mini coding games and assignments for fun. In high school, I honed my skills and focused on languages such as Java, C++, and C# while exploring game development through platforms such as Unity and Unreal Engines. Currently, I am focused on frontend development and refining my skills in HTML, CSS, and JavaScript, as that was my main focus in my last internship, and where I will be returning again this summer with Arkane Digital. However, I love discovering new topics, and I hope to explore areas such as AI and machine learning to eventually contribute to advancements in these fields.

My future professional goals involve working for a company dedicated to providing impactful future-oriented software. In order to do so, I am committed to strengthening my knowledge through Texas A&M's renowned Computer Science degree program. Furthermore, I aspire to pursue my Master's in Computer Science at TAMU grad school so I may be better equipped to impact the industry. I take pride in my passion for computer science and my ability to learn both thoroughly and quickly. My involvement in the Department of Computer Science at TAMU would be nothing but rewarding as I am prepared to work, adapt, and apply my understanding to the evolving world of computer science.

Data Engineering

In a paragraph of 250 words or less, please explain your choice of Data Engineering. Include academic areas of interest, future professional career goals, and strengths you would bring to the department. This statement of purpose will only be reviewed by the Data Engineering ETAM application review committee.

I am especially interested in the computer science side of data engineering, especially given my prior experience working with the backend of several applications that I've developed, whether it be for hackathons or game development in my past internship. Through these projects, I experienced learning what it was like to handle mass amounts of data from login credentials to individual clicks per second of a user's movements.

Over the years, data storage and backend systems have started to catch my eye and peak my interest. Managing and creating solutions that successfully withstand the exponential growth of data is a task that I enjoy taking on. While I have mainly focused on the computer science aspect of data engineering, I have started to become more familiar and more passionate with the field as a whole over the years.

My future professional goals involve working for a company dedicated to providing impactful data solutions. In order to do so, I am committed to strengthening my knowledge through Texas A&M's renowned Data Engineering degree program. I take pride in my passion for data analysis and my ability to learn both thoroughly and quickly. My involvement in the Department of Data Engineering at Texas A&M would be nothing but rewarding as I am prepared to work, adapt, and apply my understanding to the evolving world of data engineering. With my determined attitude, I believe that I would be a valuable asset to the Data Engineering Department.

Computer Engineering

In a paragraph of 250 words or less, please explain your choice of Computer Engineering. Include academic areas of interest, future professional career goals, and strengths you would bring to the department. This statement of purpose will only be reviewed by the Computer Engineering ETAM application review committee.

Computer Engineering has always been a growing interest of mine. Since middle school, I have been captivated by problem-solving, programming, and other fundamental principles of computer engineering. My interest began with discovering Scratch, where I would do mini coding games and assignments for fun. In high school, I honed my skills and focused on languages such as Java, C++, and C# while exploring game development through platforms such as Unity and Unreal Engines. Currently, I am focused on frontend development and refining my skills in HTML, CSS, and JavaScript, as that was my main focus in my last internship, and where I will be returning again this summer with Arkane Digital. However, I also enjoy working with the hardware aspect and the computer system components.

My future professional goals involve working for a company dedicated to providing impactful future-oriented software and hardware. In order to do so, I am committed to strengthening my knowledge through Texas A&M's renowned Computer Engineering degree program. Furthermore, I aspire to pursue my Master's in Computer Engineering or Computer Science at TAMU grad school so I may be better equipped to impact the industry. I take pride in my passion for computer engineering and my ability to learn both thoroughly and quickly. My involvement in the Department of Computer Engineering at TAMU would be nothing but rewarding as I am prepared to work, adapt, and apply my understanding to the evolving world of technology.

Outstanding Achievements

In high school, I aimed to make the most of the resources that were provided to me by taking programming classes such as AP Computer Science A, which I passed and received AP credit for.

However, the majority of my growth came through the experience I gained during my two internships. In my first internship with Edikt Studios, I worked on game development with C++ and C# using Unity and Unreal Engines. I was able to enhance both my problem-solving and collaborative skills.

In my second internship with Arkane Digital, I contributed to the development of the company's official website. I worked with languages such as HTML, CSS, and JavaScript to incorporate components such as the logo list, and About Us page. Our team utilized the React library for the creation of the website, and the framework Next.js for improved performance and optimization. This summer, I have agreed to return to Arkane Digital and assist with their social media profile, which they plan to make fully AI-automated.

So far at Texas A&M, I have gotten plugged into the Aggie Coding Club and Aggie AI Society. These organizations have helped me hone my craft and introduced me to the growing fields of AI and machine learning. In addition, I have participated in various hackathons sponsored by organizations on campus that have given me more project experience in addition to invaluable skills such as project management and cooperation in the workplace.

Additional Information

Entering Texas A&M, I was both nervous and excited about pursuing an engineering degree here. I had heard a lot of stories about the course rigor, challenges, and difficulties that came with the TAMU engineering program. My tenure in the engineering program here has been filled with both ups and downs, especially in the first semester as it took some time to get used to the workload. However, one thing has been made apparent to me now: I made the right choice to pursue a degree in engineering. Engineers need to be able to overcome trials and tribulations in order to solve problems, and that is exactly what my first year at this university has taught me. I am ecstatic to further my development in the department of engineering and I am prepared to relentlessly work and strive for greatness. Texas A&M's College of Engineering is the best of the best and I am privileged to be a part of it. I plan on pursuing a master's degree here and furthering my education by taking advantage of the illustrious graduate program that A&M has to offer. The engineering courses and events that I have partaken in here have shown me that this university deeply cares about its students and their futures. I know that my future is in excellent hands with the prestigious Texas A&M College of Engineering, and the fantastic graduate program.