

MSC Computer Science I find it fascinating that computers have the potential to do so much, with applications ranging from artificial intelligence assisting medical professionals in the early diagnosis of cancer to teaching astronauts how to behave in space through virtual reality programs. I think it would be remarkable to be part of a system that could create artificial intelligence which can improve cancer diagnosis and cure rates or to write the embedded software for robots which can perform complex and minute surgery, the operation of which is thus far impossible for human doctors. Having chosen to study medicine at school, I now feel that my desire to help people would be better suited in more of an IT-focused route. I believe my studies in Medicine, which involved multiple research projects and culminated in a lab project in my BSc year, have helped me develop my analytical and logical thought processes that allow me to learn and understand programming languages efficiently and quickly. I have started to put my interest into practising learning Python and JavaScript and have begun building a website for a successful online jewellery business, which has only reinforced my desire to study computer science. Furthermore, while studying medicine, I have also been able to develop my skills in self-directed learning as medicine is such a large area of study, it cannot be taught only through lectures and seminars. These skills will also be exceptionally useful in studying computer science, in particular when pursuing a software development career. The fast paced and constantly changing nature of technology means that I will be required to be learning throughout my career, something I have already experienced at university and am confident I can continue to do in the future. Additionally, the importance of self-directed learning means that I have become very adept at managing my time and using that time to its maximum capacity. This will be important whilst studying an MSc in Computer Science due to the vast array of topics taught both in the core modules and the optional modules. I believe that with my ability to manage a large work load, I look forward to getting the absolute maximum out of the course. Alongside my studies I have also been a keen rugby player, having represented and captained Sidmouth RFC and Devon RFC before attending university, and also representing the university. Rugby is a rather unique sport as it requires high discipline under challenging circumstances. There are strict rules which sometimes can be hard to adhere to whilst being put under pressure and in the heat of the moment. Added to this is the difficulty of thinking tactically and logically about what one is personally doing while also considering the team's actions despite being both physically and mentally tired from a match. It is through playing years of rugby that I have been able to develop strong personal discipline and to further my ability to work efficiently and think clearly under pressure. I am particularly keen to study computer science at the University of Swansea for a mixture of reasons. Firstly, I am excited by the variety of optional modules that Swansea offers. Whilst many courses offer a basic Java programming core set of modules, Swansea also has options that would allow me to tailor my learning towards my end goal of working with embedded systems. Furthermore, having studied in London for four years, I am very keen to study outside a large city and by the sea. The location and the sporting options for someone who enjoys sailing and rugby would mean I would also be able to excel in extracurricular activities and become fully integrated into life at Swansea University.