

Future Employer

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To Whom It May Concern:

My name is Morgan Bettencourt, and I am currently a Junior at Florida Gulf Coast University. I am pursuing a degree in Mathematics, and a minor in Computer Science. I have always enjoyed mathematics, and the idea of the power behind a computer has always amazed me; this however, made it very difficult to decide which field I wanted to master. It became easier when I began to understand how different fields worked together; these fields include computer science, software engineering, and information technology.

Computer science basically is the study of processes that interact and can be presented as a program. This field requires algorithms, which will inevitably communicate and store information. Coding, programming, and an abundance of mathematical understanding, are just a few skills that a computer scientist must entail. Comparatively, Software engineering is an occupation that is always expanding, and creating curiosity every day. This occupation to my understanding, is using the deep understanding of computer science, to not only know how to code the information, but also understand how to design, test, and analyze products the engineer will be constructing. Although computer scientists do not have to know how to be a software engineer, it is a requirement that a software engineer is well-rounded, and knows the background of a computer scientist. This is not to say that Information Technology is not one of the most upcoming jobs of our generation. This occupation revolves around the idea of making people's lives easier. Information Technology promotes accessibility in health care, education, and everyday life choices. In other words, Information technology refers to the development, maintenance, and use of computer software, systems, and networks. This occupation allows for GPS systems, downloading music, playing games, efficient-classrooms, and seriously anything technology that you can think of.

There are so many fields in computer science that create a huge impact on our world. Just a brief list includes: programming language, Artificial Intelligence, and networking. Networking deals with how devices connect with each other, which has a lot to do with WIFI networks, cables, modems, etc. Networking also covers transmitting data, reducing networking traffic, and relying on encryptions and algorithms. Programming languages are the basis and the core of everything computer science. There are countless ways in programming to come up with the same result, which is why this area is always searching for professionals. Some examples of programming languages include Rstudio, wxMaxima, Python, and C++. A great occupation in programming, is to improve the functions and productivity of these programs. The final field of computer science that I would like to go over is Artificial Intelligence. This field is the epitome of what I think of as the 21st century, and what I think our future will entail. This field works with robotics, applying programs which allow them to interact with other robots, or even people. Some strands of AI research focus on anything from building games, all the way to designing programs to diagnose problems in spacecraft's.

If I was to choose one of these fields to focus on, I would work in a field of Artificial Intelligence. It is outstanding how many intelligent systems have been programmed in just the last decade or so. This field will change the world, whether it is for better or for worse; artificial intelligence in robots...will inevitably change the world. In recent years, there have been robots who are able to perform better than humans in athletic trials, play instruments, run faster than a cheetah, fight fires, and so many more amazing things. Artificial Intelligence is our future, and I plan to be a part of this new era. I hope you consider my passion and knowledge for this field, while considering me to join your team.

Thank you,
Morgan Bettencourt

Word count: 622

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Short Report

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FGCUScholars Skills

As someone who prides myself in my writing skills, I always make sure to follow the same plan every time I write an essay or report. This report was a little different for me due to the fact that it was in the form of a letter, however I really enjoyed talking about this subject. Before I even began the outline, I thought about the background information that I knew about the topic, before looking to our textbook for assistance. I find this as a good brain storming idea, and it will give you an idea of how much you need to research for an effective paper. I have a lot of knowledge on this subject, due to the fact that mathematics and computer science is what I am studying. However, nobody is perfect, and I found a lot of useful information in our textbook, *Computer Science Illuminated*, by Nell Dale and John Lewis. My outline was a basic understanding of the three occupations, and the background information of each one. My outline was organized so I followed the questions given on the prompt. Grammarly is a fantastic website that will allow you to enhance a statement you are trying to portray. If I am stuck on a word, or searching for an appropriate statement, grammarly is always a useful source.

My professors in Comp I and Comp II, would appreciate the level of understanding that I was able to provide in my writing. I used my knowledge from these courses to write a report that I am proud of. After I wrote my report, checked my grammar, and then checked it again...I then read my report out loud to myself to check if what I was putting on paper, translated the same verbally. If I can be honest, the 5 Why's tends to make me ramble in my reports, because I feel as though there is so much to say. I try my best to stick to my point, and analyze what is have previously stated, in just a few statements. I have, for many years, referenced the C.R.A.P test, to determine if what I was researching was credible. If not, this would result in my own work not being credible. As I stated previously, I am very proud of this report, as it is a topic that I am very passionate about.

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