Fields Report

What makes Computer Science, software engineer, and Information Technology. Software engineering is designing and building software operating systems, middleware, business applications, computer applications, and games. According to Bamberger, "Software engineering entails the understanding and application of engineering principles, design skills, good management practice, computer science and mathematical formalism." According to the Department of Computer Science from University of Maryland, "Computer Science is the study of computers and computational systems." Information technology is according to John Brandwagt, "Information technology is comprised of various facets, including network administration, design, telecommunications, computer support, computer science, software programming and system analyses."

Three fields of computer science are graphics, artificial intelligence, and hardware. The entertainment industry always try to develop new graphic software so that they can make movies, video games, and other forms of art with a computer. According to the Department of Computer science from University of North Carolina graphics can, "Include image-generation algorithms, geometric and physics-based modeling, computer animation, multi-modal interaction techniques (including haptics, audio, and project-based rendering), model and motion acquisition, large-scale data management, analysis, and visualization, graphics hardware, display devices, and their applications." Graphics are applied to computer science where it takes math and algorithms to create images that are used in art and games to make them look amazing or realistic. Artificial Intelligence is when there are machines that think and can act like a human.

It's an interesting field to go into because machines can't possibly think like humans as far as we know. According to Investopedia, "Artificial intelligence (AI) is a term for simulated intelligence in machines. These machines are programmed to "think" like a human and mimic the way a person acts. The ideal characteristic of artificial intelligence is its ability to rationalize and take actions that have the best chance of achieving a specific goal, although the term can be applied to any machine that exhibits traits associated with a human mind, such as learning and solving problems." AI is applied to computer science because they are computers that try to simulate humans thoughts with programs and people are still working on creating the AI that mimics exactly like a human with infinite intelligence. Hardware is the physical parts of a computer that operate on digital signals. They are electric components that are needed to start or make a computer work. According to computerscience.org, "Hardware engineers, design, implement and test the hardware and systems that optimize a computer's performance. Through their vision and work, they influence the direction of computer technology development." Computer science is applied to this field because it has to do with hardware needed to be built and to work for a computer to turn on otherwise it's a blank screen. I am most interested in the graphics field because I want to design video games as a profession and work with a lot of other software engineers to make a great looking game.

Second Report

I thought about how I should type a report and so I first made an outline and look up research on software engineering and started to discover a lot of information that I haven't known about yet.

I wanted to use the resources that were given to me so that I could look up information from the internet and apply it to my own words through the paper. I analyzed my cited sources and thought they were accurate descriptions of what each of the topics I choose meant to me. I looked through a bunch of research reports through ProQuest and they all had a lot to say about Software engineering. I went to the library to type this report up because its quiet and I can use more critical thinking when there's a quiet place. It also has a bunch of computers, books, and guides to help look up information. I was making sure that I have all of my sources cited so that they get the credit they deserve. It's important that I give credit where credit is due, otherwise it would be an unjust society. I described each topic with my input and I gave a quotation from a cited source to back up my claim. Then I gave my input about what field of computer science I am most interested are graphics because I love video games and their amazing art graphics and someday I actually want to program or design them to make an awesome game.

Work Cited

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